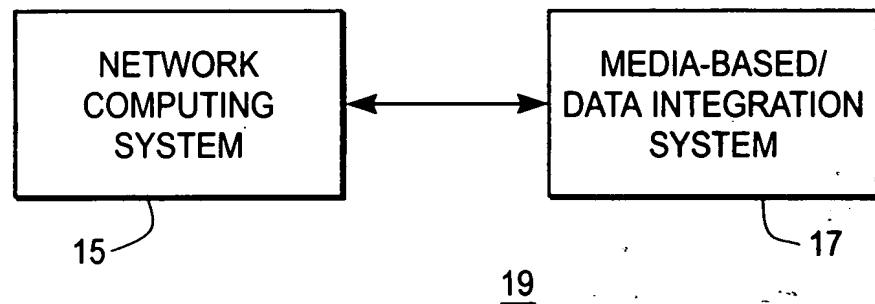


**FIG. 1A**



**FIG. 1B**

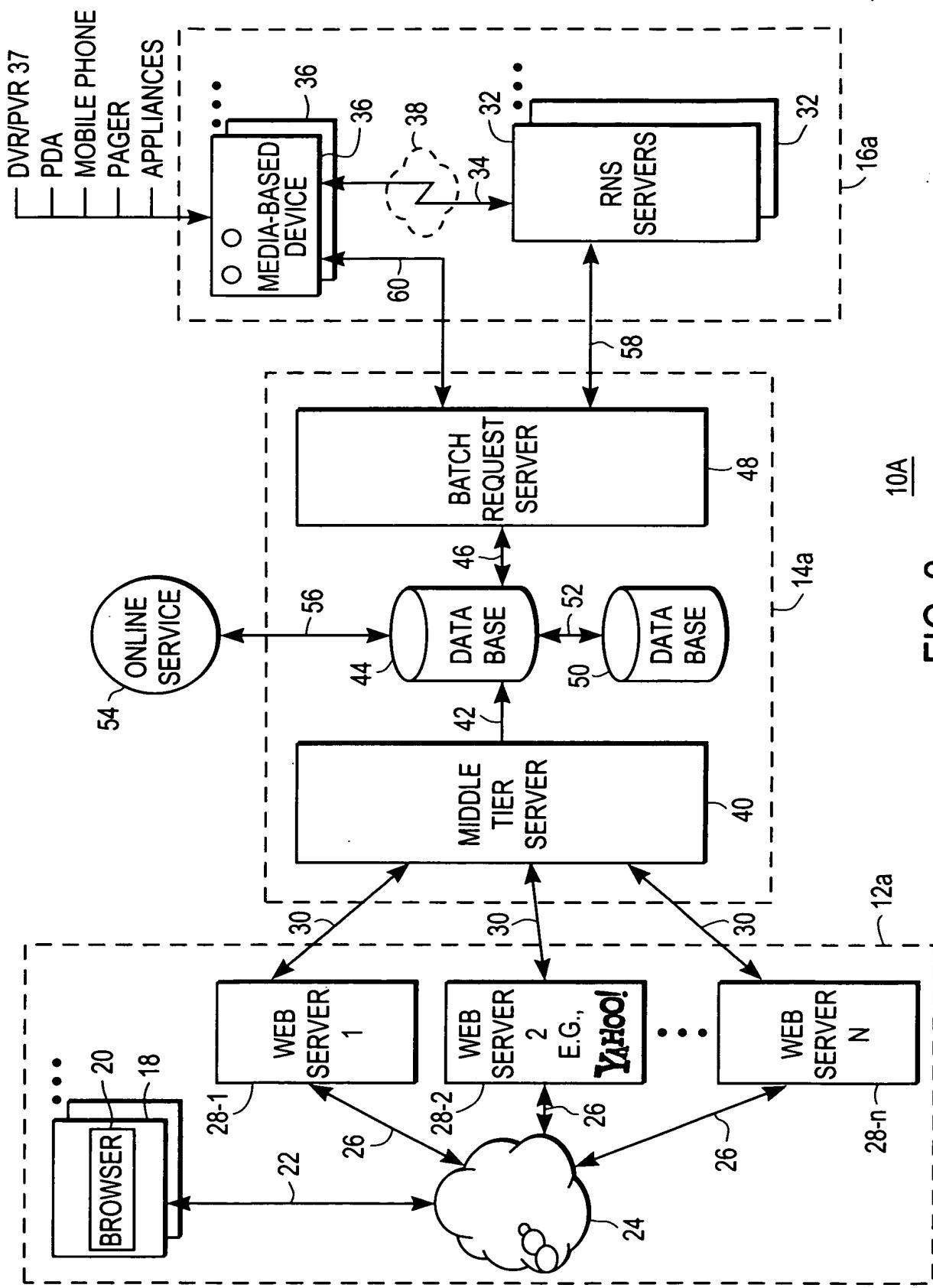


FIG. 2

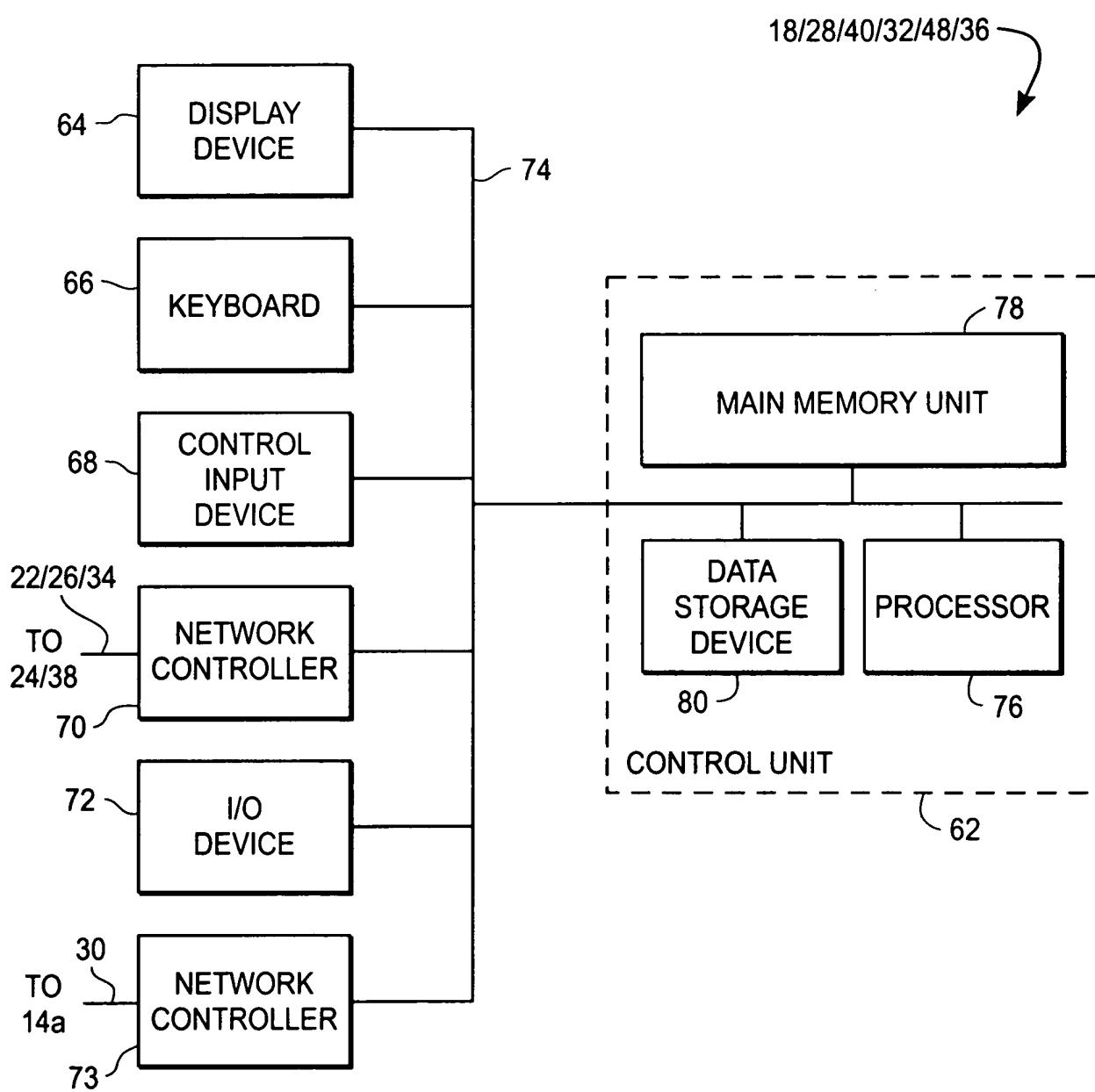


FIG. 3

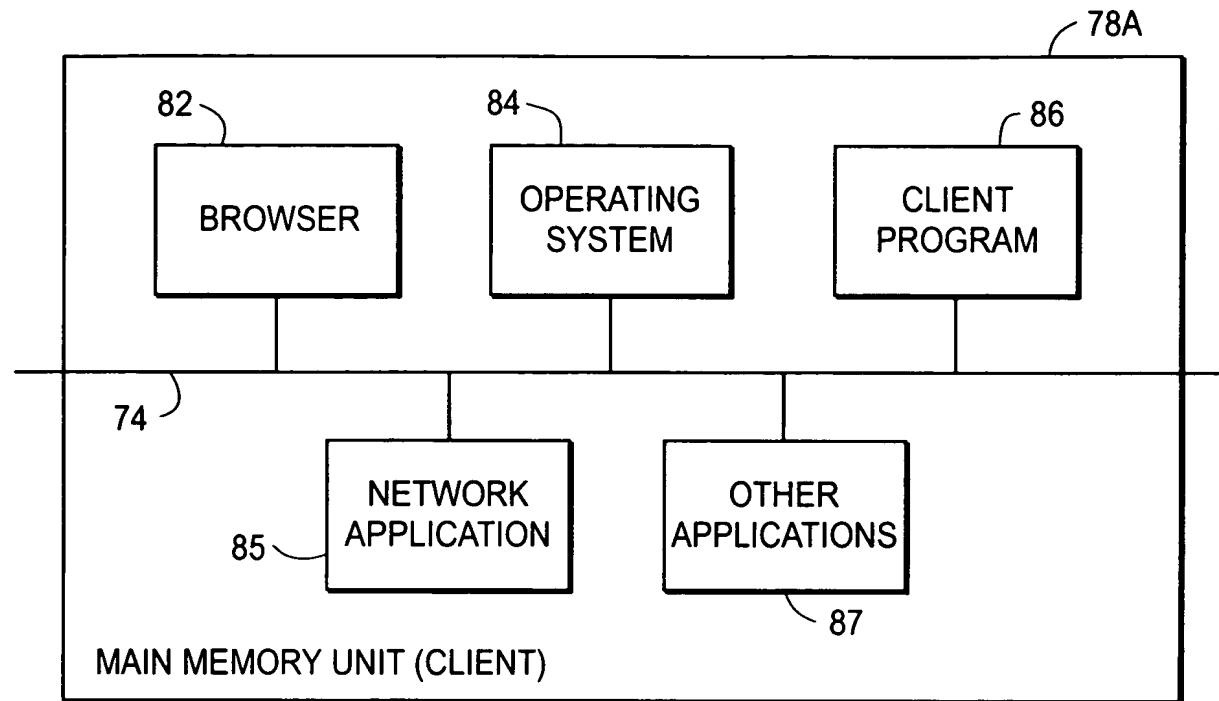


FIG. 4A

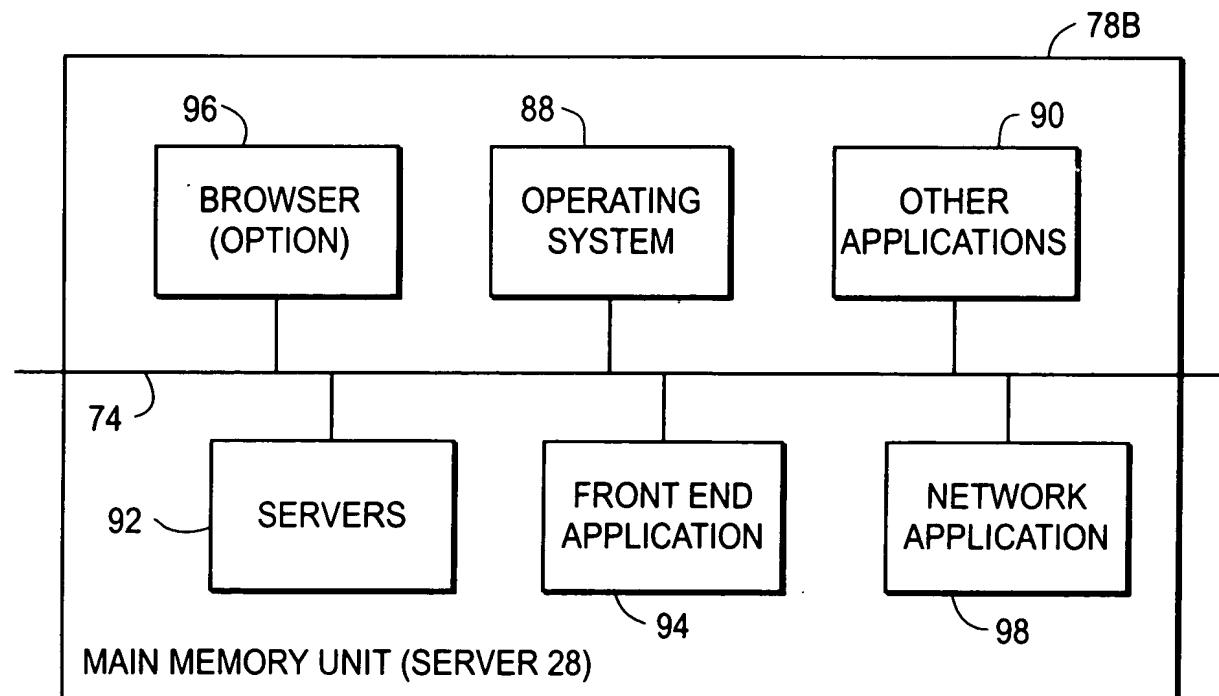


FIG. 4B

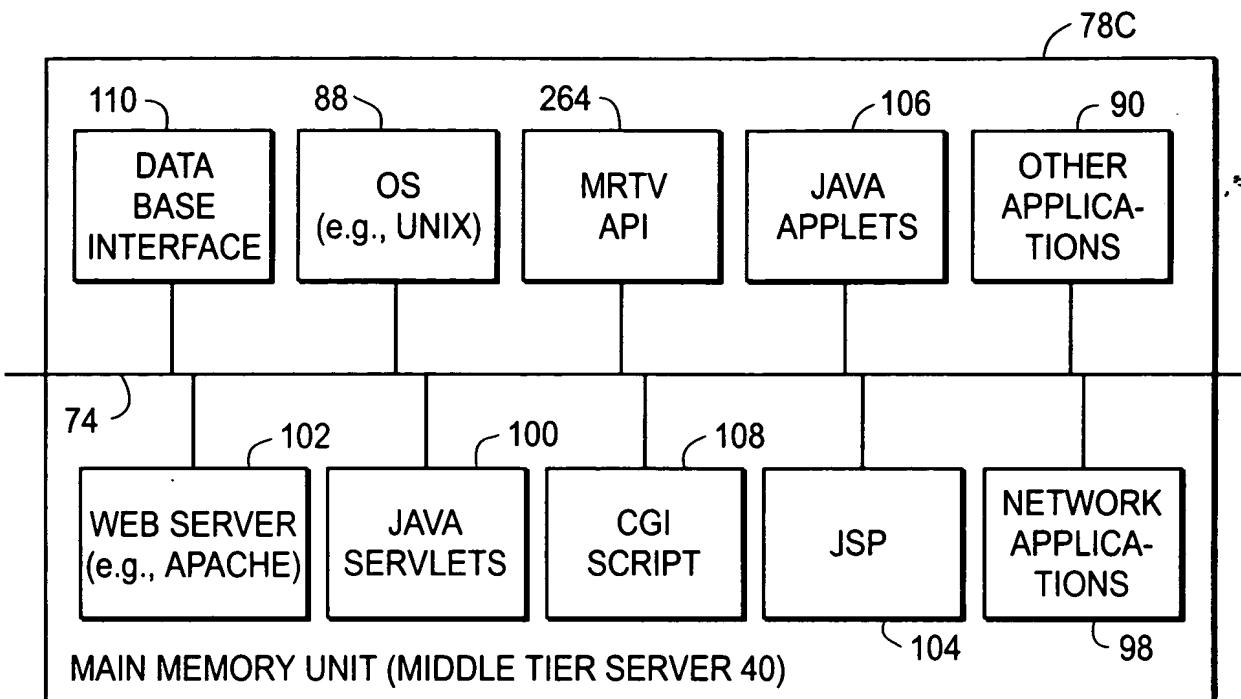


FIG. 4C

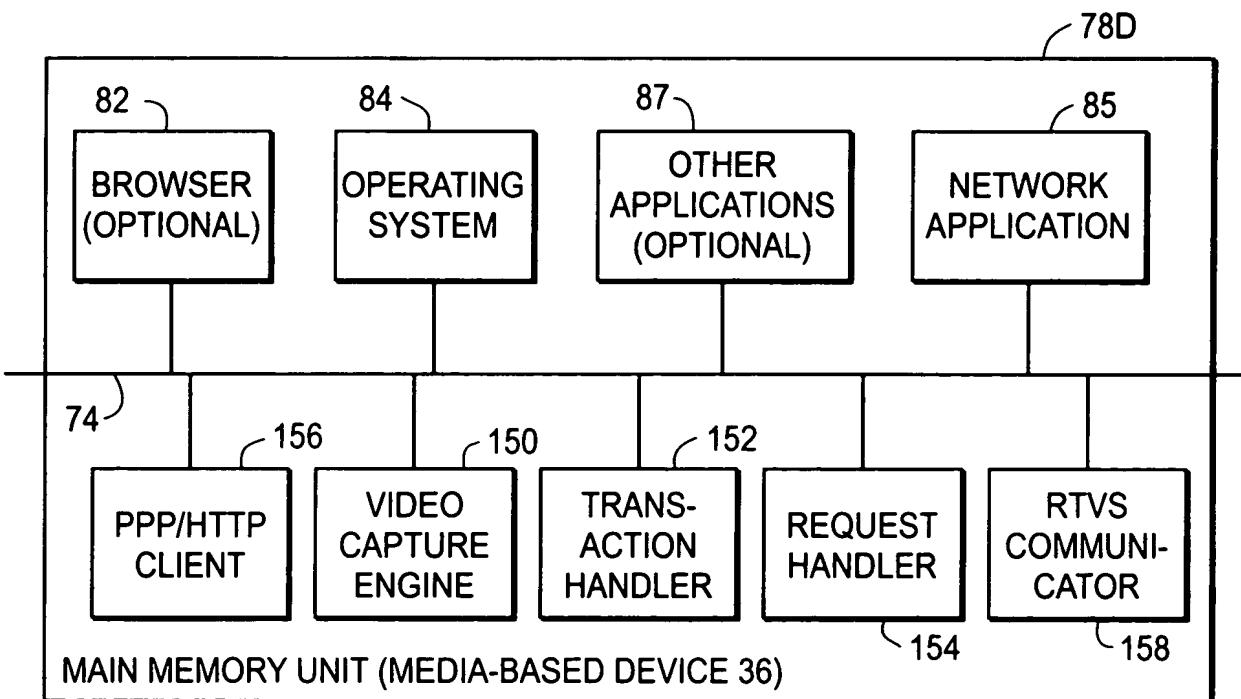


FIG. 4D

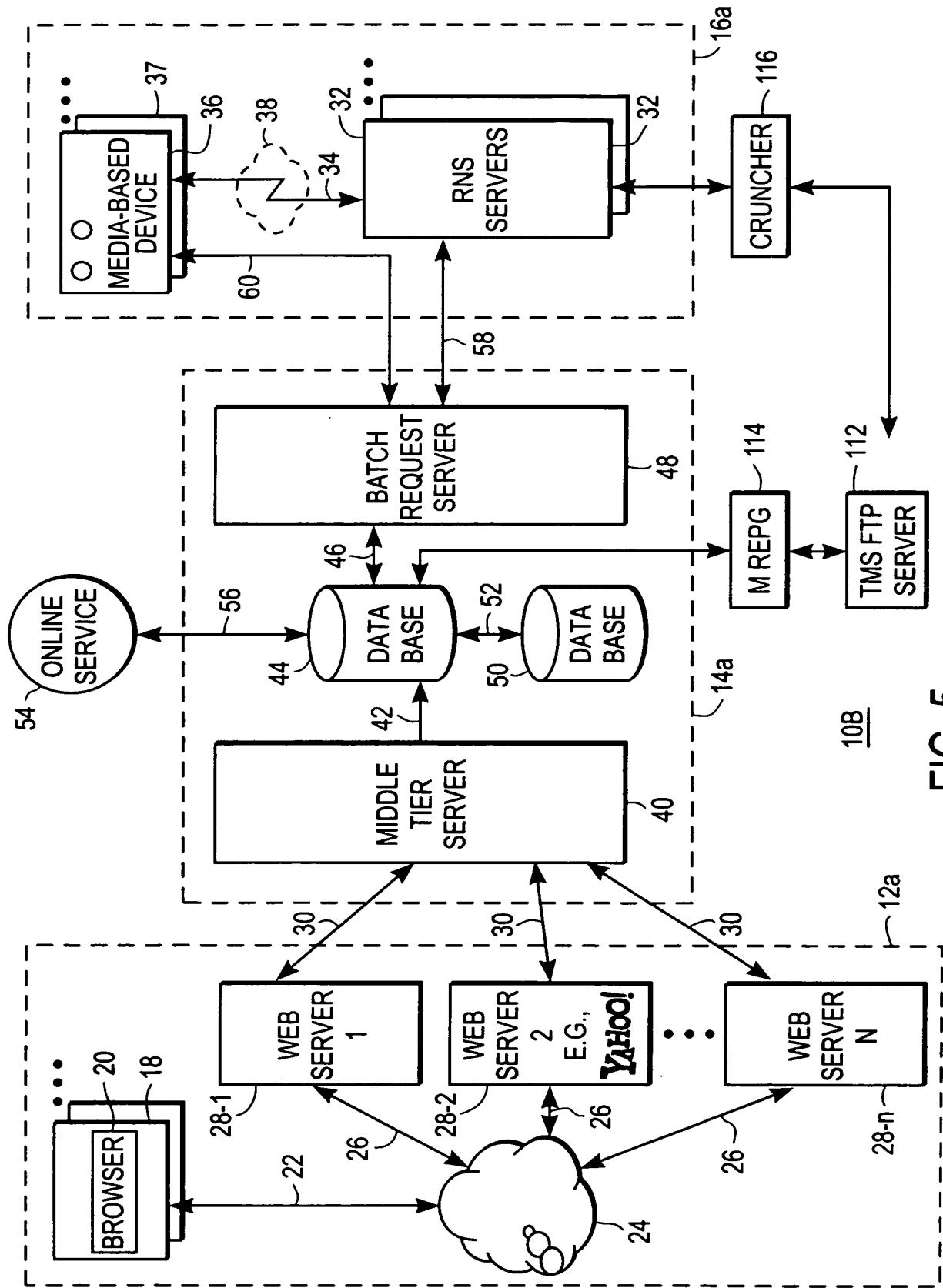


FIG. 5

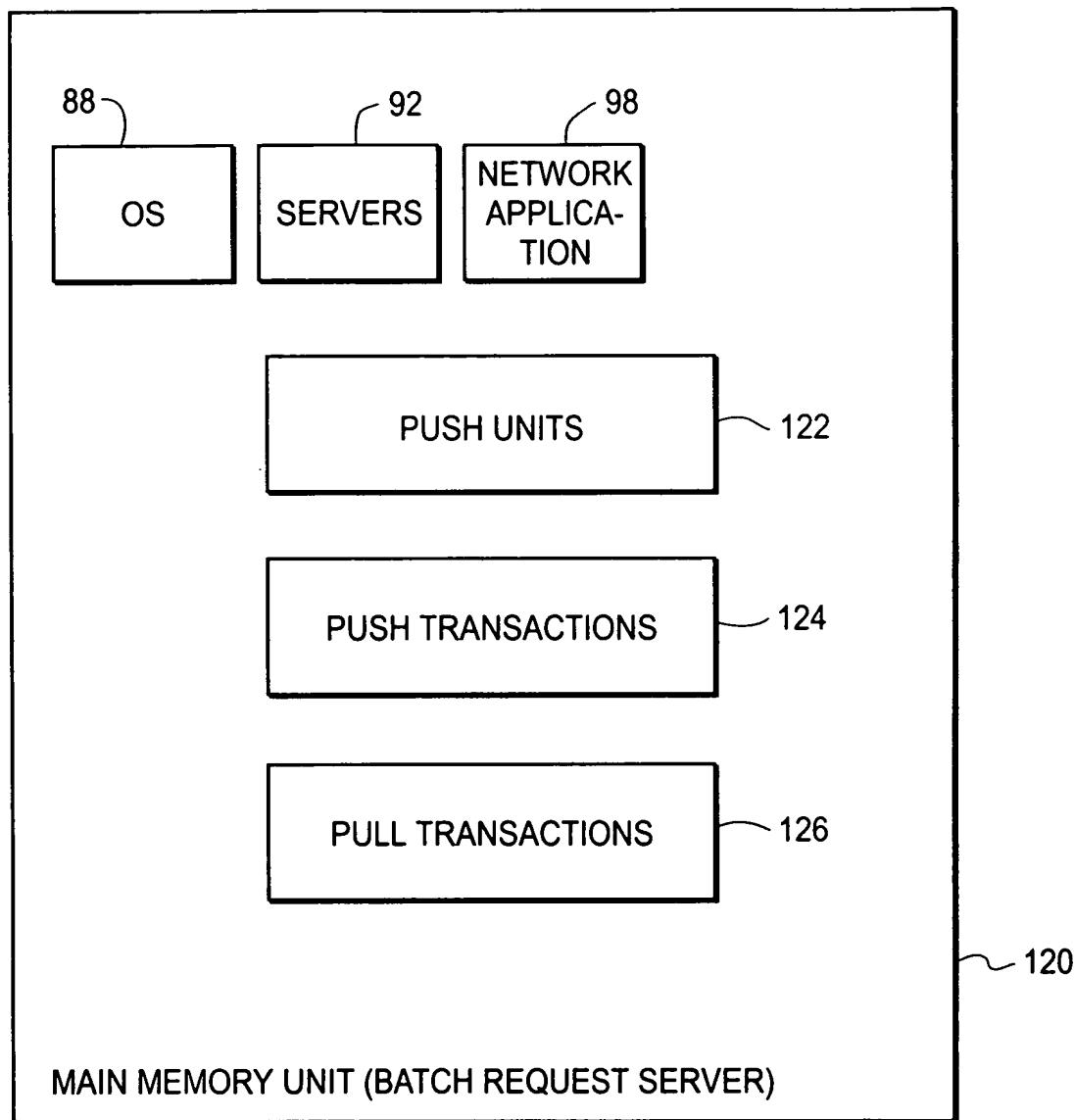


FIG. 6

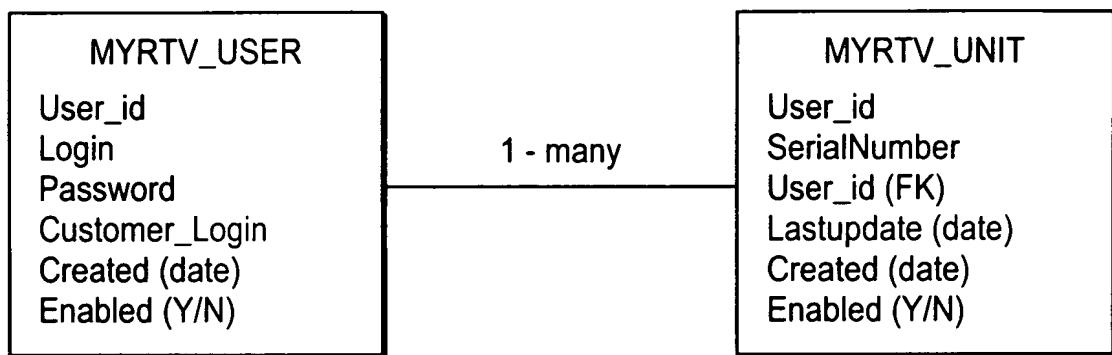


FIG. 7

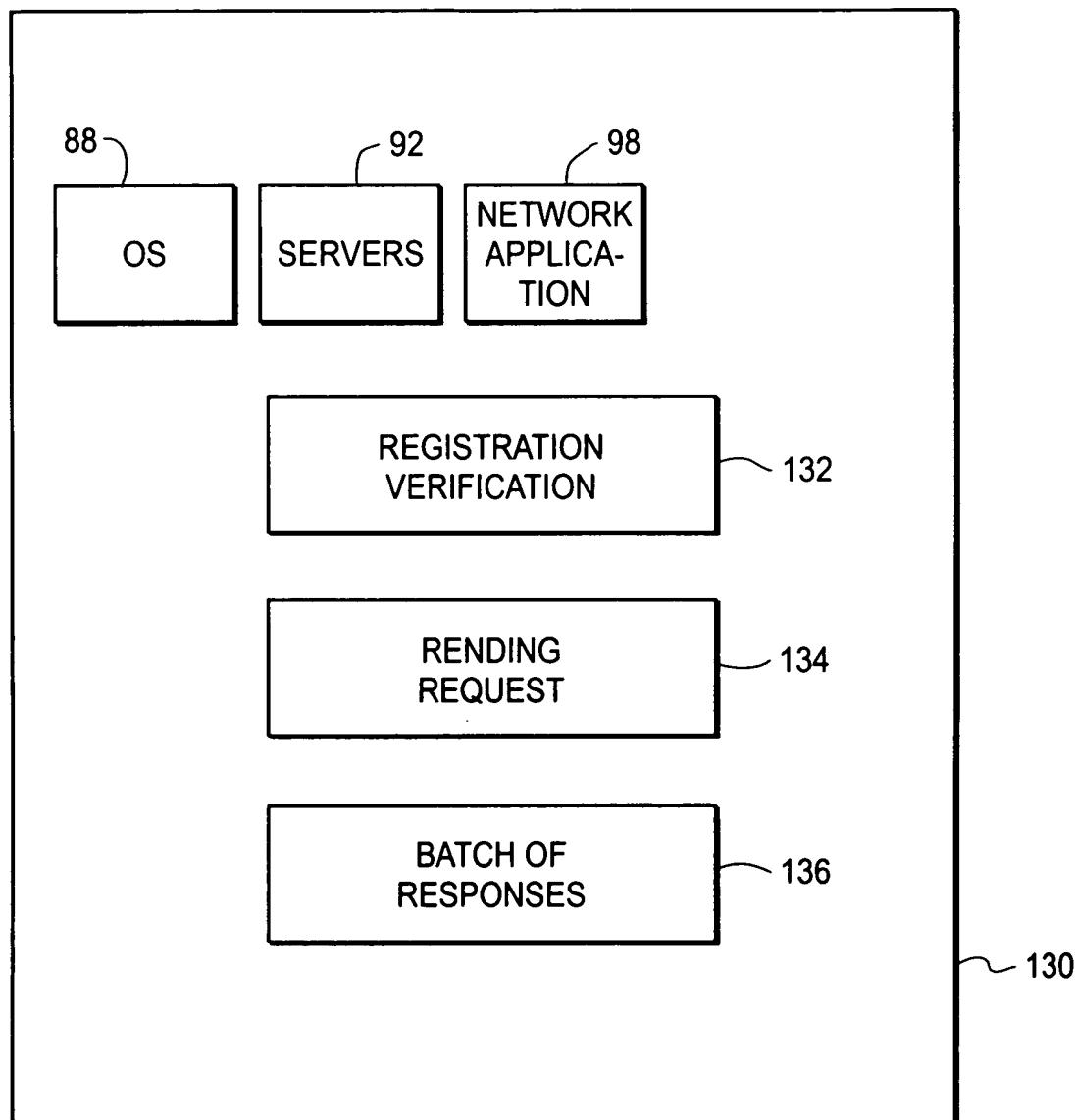


FIG. 8

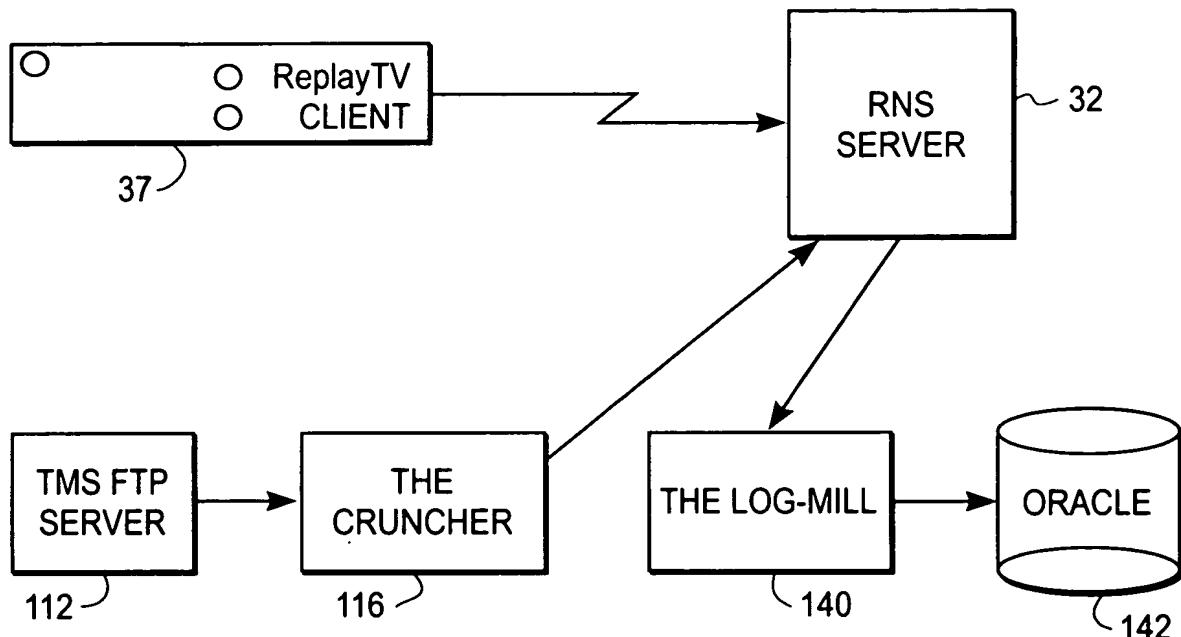


FIG. 9

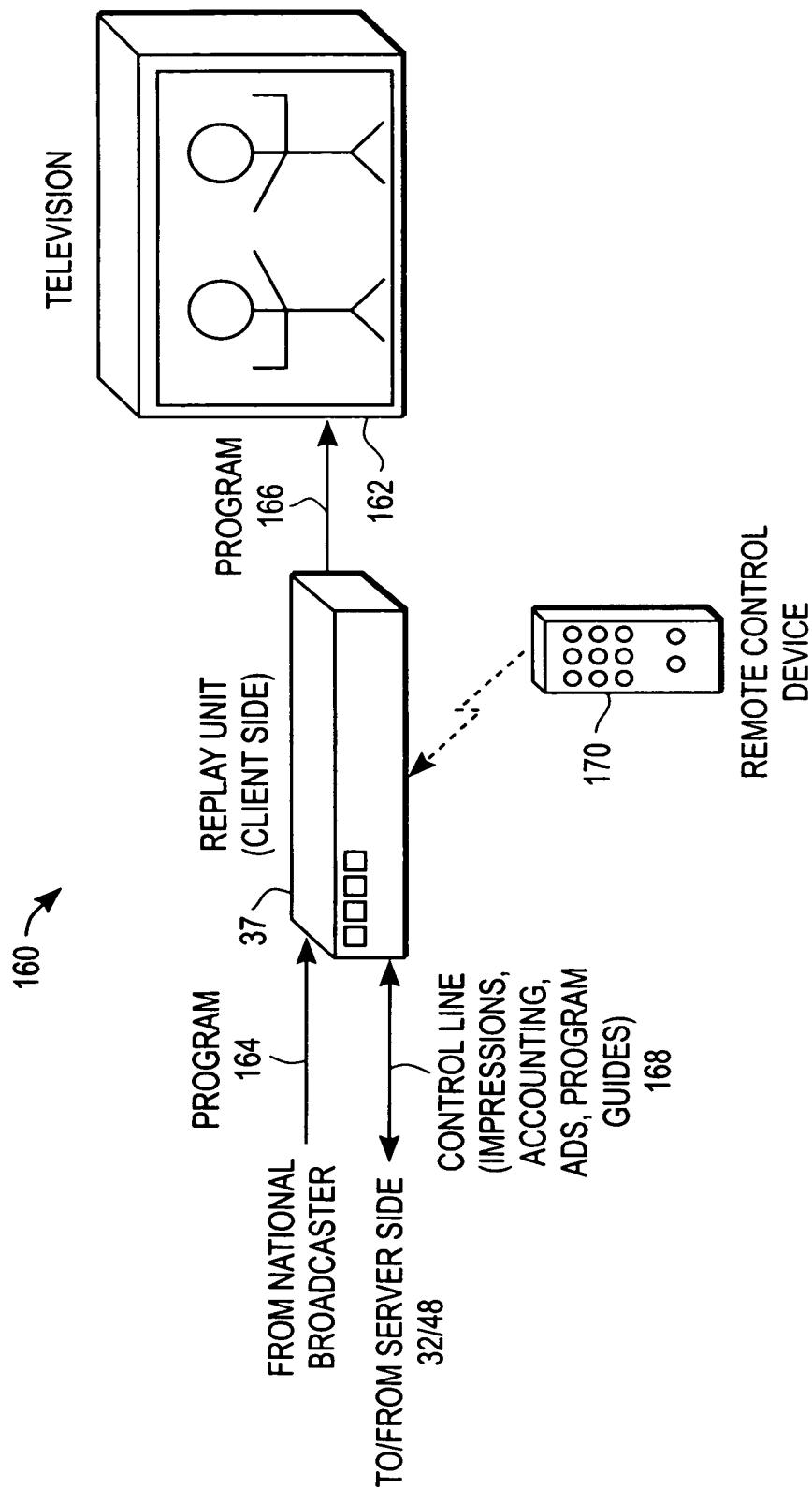


FIG. 10

+

my  replaytv®

marketing/promotional information

---

user name:  sign on

password:

remember my password [I forgot my password](#)

---

Are you a new user to the myreplaytv webpage?

---

[Help](#) [Contact us](#)

182

184

180

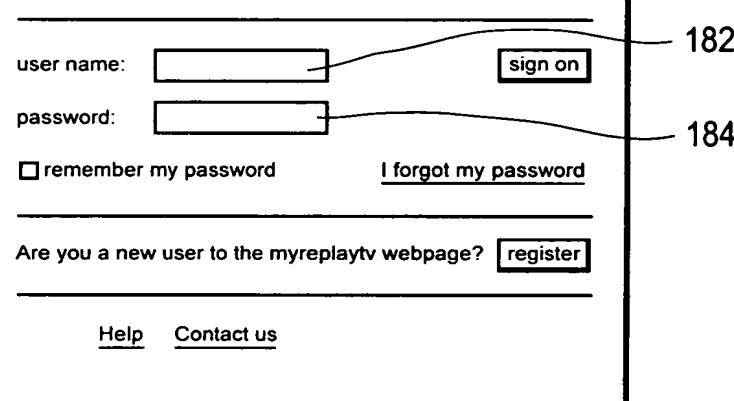


FIG. 11

my r replaytv®

Channel Guide    Replay Guide    Find Shows    Manual Record

Preferences    Help    Logout

## Channel Guide

Station	Program	Start Time	End Time	Category
195	6:00 PM	6:30 PM	Today 03/06	0 OXYGEN
196	6 pm	7:00 PM	198	0 OXYGEN
197	7:00 PM	7:30 PM	192	GO
198	7:30 PM	8:00 PM	202	GO
199	8:00 PM	8:30 PM	200	GO
200	8:30 PM	9:00 PM	201	GO
201	9:00 PM	9:30 PM	203	GO
202	9:30 PM	10:00 PM	204	GO
203	10:00 PM	10:30 PM	205	GO
204	10:30 PM	11:00 PM	206	GO
205	11:00 PM	11:30 PM	207	GO
206	11:30 PM	12:00 AM	208	GO
207	12:00 AM	12:30 AM	209	GO
208	12:30 AM	1:00 AM	210	GO
209	1:00 AM	1:30 AM	211	GO
210	1:30 AM	2:00 AM	212	GO
211	2:00 AM	2:30 AM	213	GO
212	2:30 AM	3:00 AM	214	GO
213	3:00 AM	3:30 AM	215	GO
214	3:30 AM	4:00 AM	216	GO
215	4:00 AM	4:30 AM	217	GO
216	4:30 AM	5:00 AM	218	GO
217	5:00 AM	5:30 AM	219	GO
218	5:30 AM	6:00 AM	220	GO
219	6:00 AM	6:30 AM	221	GO
220	6:30 AM	7:00 AM	222	GO
221	7:00 AM	7:30 AM	223	GO
222	7:30 AM	8:00 AM	224	GO
223	8:00 AM	8:30 AM	225	GO
224	8:30 AM	9:00 AM	226	GO
225	9:00 AM	9:30 AM	227	GO
226	9:30 AM	10:00 AM	228	GO
227	10:00 AM	10:30 AM	229	GO
228	10:30 AM	11:00 AM	230	GO
229	11:00 AM	11:30 AM	231	GO
230	11:30 AM	12:00 PM	232	GO
231	12:00 PM	12:30 PM	233	GO
232	12:30 PM	1:00 PM	234	GO
233	1:00 PM	1:30 PM	235	GO
234	1:30 PM	2:00 PM	236	GO
235	2:00 PM	2:30 PM	237	GO
236	2:30 PM	3:00 PM	238	GO
237	3:00 PM	3:30 PM	239	GO
238	3:30 PM	4:00 PM	240	GO
239	4:00 PM	4:30 PM	241	GO
240	4:30 PM	5:00 PM	242	GO
241	5:00 PM	5:30 PM	243	GO
242	5:30 PM	6:00 PM	244	GO
243	6:00 PM	6:30 PM	245	GO
244	6:30 PM	7:00 PM	246	GO
245	7:00 PM	7:30 PM	247	GO
246	7:30 PM	8:00 PM	248	GO
247	8:00 PM	8:30 PM	249	GO
248	8:30 PM	9:00 PM	250	GO
249	9:00 PM	9:30 PM	251	GO
250	9:30 PM	10:00 PM	252	GO
251	10:00 PM	10:30 PM	253	GO
252	10:30 PM	11:00 PM	254	GO
253	11:00 PM	11:30 PM	255	GO
254	11:30 PM	12:00 AM	256	GO
255	12:00 AM	12:30 AM	257	GO
256	12:30 AM	1:00 AM	258	GO
257	1:00 AM	1:30 AM	259	GO
258	1:30 AM	2:00 AM	260	GO
259	2:00 AM	2:30 AM	261	GO
260	2:30 AM	3:00 AM	262	GO
261	3:00 AM	3:30 AM	263	GO
262	3:30 AM	4:00 AM	264	GO
263	4:00 AM	4:30 AM	265	GO
264	4:30 AM	5:00 AM	266	GO
265	5:00 AM	5:30 AM	267	GO
266	5:30 AM	6:00 AM	268	GO
267	6:00 AM	6:30 AM	269	GO
268	6:30 AM	7:00 AM	270	GO
269	7:00 AM	7:30 AM	271	GO
270	7:30 AM	8:00 AM	272	GO
271	8:00 AM	8:30 AM	273	GO
272	8:30 AM	9:00 AM	274	GO
273	9:00 AM	9:30 AM	275	GO
274	9:30 AM	10:00 AM	276	GO
275	10:00 AM	10:30 AM	277	GO
276	10:30 AM	11:00 AM	278	GO
277	11:00 AM	11:30 AM	279	GO
278	11:30 AM	12:00 PM	280	GO
279	12:00 PM	12:30 PM	281	GO
280	12:30 PM	1:00 PM	282	GO
281	1:00 PM	1:30 PM	283	GO
282	1:30 PM	2:00 PM	284	GO
283	2:00 PM	2:30 PM	285	GO
284	2:30 PM	3:00 PM	286	GO
285	3:00 PM	3:30 PM	287	GO
286	3:30 PM	4:00 PM	288	GO
287	4:00 PM	4:30 PM	289	GO
288	4:30 PM	5:00 PM	290	GO
289	5:00 PM	5:30 PM	291	GO
290	5:30 PM	6:00 PM	292	GO
291	6:00 PM	6:30 PM	293	GO
292	6:30 PM	7:00 PM	294	GO
293	7:00 PM	7:30 PM	295	GO
294	7:30 PM	8:00 PM	296	GO
295	8:00 PM	8:30 PM	297	GO
296	8:30 PM	9:00 PM	298	GO
297	9:00 PM	9:30 PM	299	GO
298	9:30 PM	10:00 PM	300	GO
299	10:00 PM	10:30 PM	301	GO
300	10:30 PM	11:00 PM	302	GO
301	11:00 PM	11:30 PM	303	GO
302	11:30 PM	12:00 AM	304	GO
303	12:00 AM	12:30 AM	305	GO
304	12:30 AM	1:00 AM	306	GO
305	1:00 AM	1:30 AM	307	GO
306	1:30 AM	2:00 AM	308	GO
307	2:00 AM	2:30 AM	309	GO
308	2:30 AM	3:00 AM	310	GO
309	3:00 AM	3:30 AM	311	GO
310	3:30 AM	4:00 AM	312	GO
311	4:00 AM	4:30 AM	313	GO
312	4:30 AM	5:00 AM	314	GO
313	5:00 AM	5:30 AM	315	GO
314	5:30 AM	6:00 AM	316	GO
315	6:00 AM	6:30 AM	317	GO
316	6:30 AM	7:00 AM	318	GO
317	7:00 AM	7:30 AM	319	GO
318	7:30 AM	8:00 AM	320	GO
319	8:00 AM	8:30 AM	321	GO
320	8:30 AM	9:00 AM	322	GO
321	9:00 AM	9:30 AM	323	GO
322	9:30 AM	10:00 AM	324	GO
323	10:00 AM	10:30 AM	325	GO
324	10:30 AM	11:00 AM	326	GO
325	11:00 AM	11:30 AM	327	GO
326	11:30 AM	12:00 PM	328	GO
327	12:00 PM	12:30 PM	329	GO
328	12:30 PM	1:00 PM	330	GO
329	1:00 PM	1:30 PM	331	GO
330	1:30 PM	2:00 PM	332	GO
331	2:00 PM	2:30 PM	333	GO
332	2:30 PM	3:00 PM	334	GO
333	3:00 PM	3:30 PM	335	GO
334	3:30 PM	4:00 PM	336	GO
335	4:00 PM	4:30 PM	337	GO
336	4:30 PM	5:00 PM	338	GO
337	5:00 PM	5:30 PM	339	GO
338	5:30 PM	6:00 PM	340	GO
339	6:00 PM	6:30 PM	341	GO
340	6:30 PM	7:00 PM	342	GO
341	7:00 PM	7:30 PM	343	GO
342	7:30 PM	8:00 PM	344	GO
343	8:00 PM	8:30 PM	345	GO
344	8:30 PM	9:00 PM	346	GO
345	9:00 PM	9:30 PM	347	GO
346	9:30 PM	10:00 PM	348	GO
347	10:00 PM	10:30 PM	349	GO
348	10:30 PM	11:00 PM	350	GO
349	11:00 PM	11:30 PM	351	GO
350	11:30 PM	12:00 AM	352	GO
351	12:00 AM	12:30 AM	353	GO
352	12:30 AM	1:00 AM	354	GO
353	1:00 AM	1:30 AM	355	GO
354	1:30 AM	2:00 AM	356	GO
355	2:00 AM	2:30 AM	357	GO
356	2:30 AM	3:00 AM	358	GO
357	3:00 AM	3:30 AM	359	GO
358	3:30 AM	4:00 AM	360	GO
359	4:00 AM	4:30 AM	361	GO
360	4:30 AM	5:00 AM	362	GO
361	5:00 AM	5:30 AM	363	GO
362	5:30 AM	6:00 AM	364	GO
363	6:00 AM	6:30 AM	365	GO
364	6:30 AM	7:00 AM	366	GO
365	7:00 AM	7:30 AM	367	GO
366	7:30 AM	8:00 AM	368	GO
367	8:00 AM	8:30 AM	369	GO
368	8:30 AM	9:00 AM	370	GO
369	9:00 AM	9:30 AM	371	GO
370	9:30 AM	10:00 AM	372	GO
371	10:00 AM	10:30 AM	373	GO
372	10:30 AM	11:00 AM	374	GO
373	11:00 AM	11:30 AM	375	GO
374	11:30 AM	12:00 PM	376	GO
375	12:00 PM	12:30 PM	377	GO
376	12:30 PM	1:00 PM	378	GO
377	1:00 PM	1:30 PM	379	GO
378	1:30 PM	2:00 PM	380	GO
379	2:00 PM	2:30 PM	381	GO
380	2:30 PM	3:00 PM	382	GO
381	3:00 PM	3:30 PM	383	GO
382	3:30 PM	4:00 PM	384	GO
383	4:00 PM	4:30 PM	385	GO
384	4:30 PM	5:00 PM	386	GO
385	5:00 PM	5:30 PM	387	GO
386	5:30 PM	6:00 PM	388	GO
387	6:00 PM	6:30 PM	389	GO
388	6:30 PM	7:00 PM	390	GO
389	7:00 PM	7:30 PM	391	GO
390	7:30 PM	8:00 PM	392	GO
391	8:00 PM	8:30 PM	393	GO
392	8:30 PM	9:00 PM	394	GO
393	9:00 PM	9:30 PM	395	GO
394	9:30 PM	10:00 PM	396	GO
395	10:00 PM	10:30 PM	397	GO
396	10:30 PM	11:00 PM	398	GO
397	11:00 PM	11:30 PM	399	GO
398	11:30 PM	12:00 AM	400	GO
399	12:00 AM	12:30 AM	401	GO
400	12:30 AM	1:00 AM	402	GO
401	1:00 AM	1:30 AM	403	GO
402	1:30 AM	2:00 AM	404	GO
403	2:00 AM	2:30 AM	405	GO
404	2:30 AM	3:00 AM	406	GO
405	3:00 AM	3:30 AM	407	GO
406	3:30 AM	4:00 AM	408	GO
407	4:00 AM	4:30 AM	409	GO
408	4:30 AM	5:00 AM	410	GO
409	5:00 AM	5:30 AM	411	GO
410	5:30 AM	6:00 AM	412	GO
411	6:00 AM	6:30 AM	413	GO
412	6:30 AM	7:00 AM	414	GO
413	7:00 AM	7:30 AM	415	GO
414	7:30 AM	8:00 AM	416	GO
415	8:00 AM	8:30 AM	417	GO
416	8:30 AM	9:00 AM	418	GO
417	9:00 AM	9:30 AM	419	GO
418	9:30 AM	10:00 AM	420	GO
419	10:00 AM	10:30 AM	421	GO
420	10:30 AM	11:00 AM	422	GO
421	11:00 AM	11:30 AM	423	GO
422	11:30 AM	12:00 PM	424	GO
423	12:00 PM	12:30 PM	425	GO
424	12:30 PM	1:00 PM	426	GO
425	1:00 PM	1:30 PM	427	GO
426	1:30 PM	2:00 PM	428	GO
427	2:00 PM	2:30 PM	429	GO
428	2:30 PM	3:00 PM	430	GO
429	3:00 PM	3:30 PM	431	GO
430	3:30 PM	4:00 PM	432	GO
431	4:00 PM	4:30 PM	433	GO
432	4:30 PM	5:00 PM	434	GO
433	5:00 PM	5:30 PM	435	GO
434	5:30 PM	6:00 PM	436	GO
435	6:00 PM	6:30 PM		

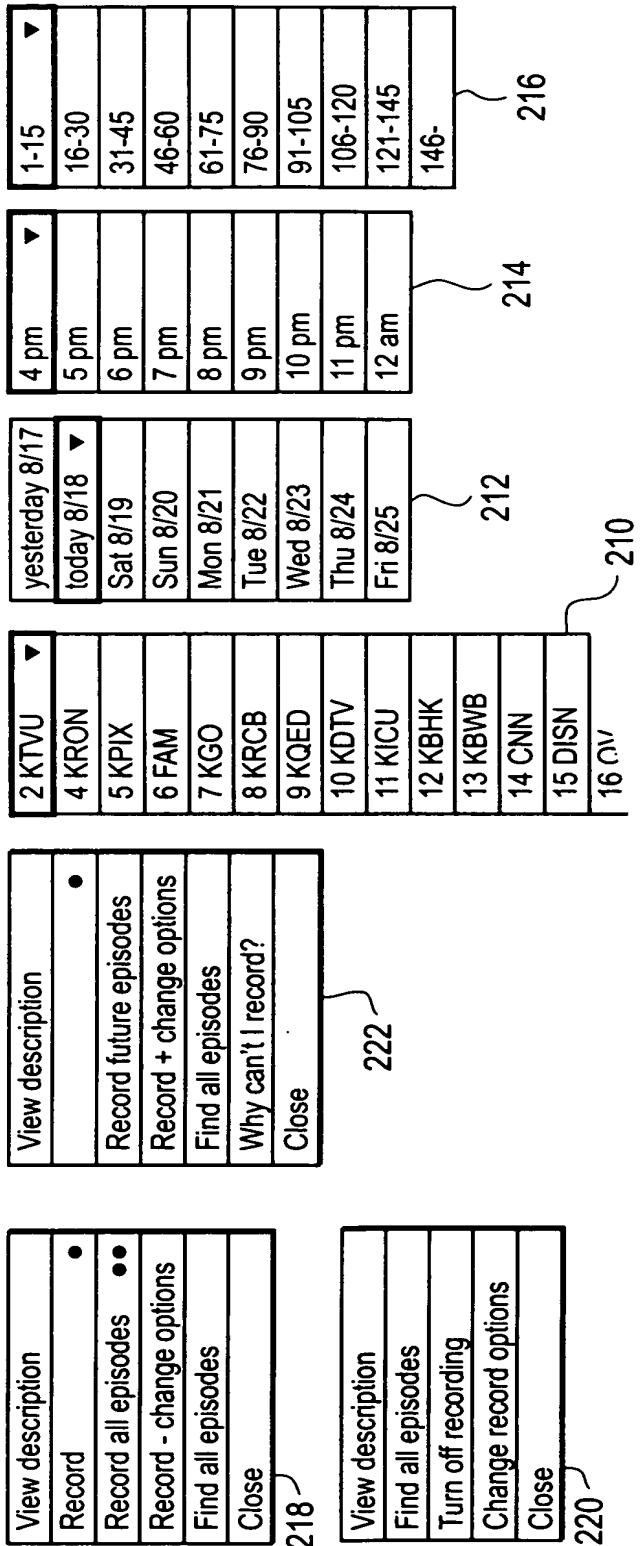


FIG. 12B

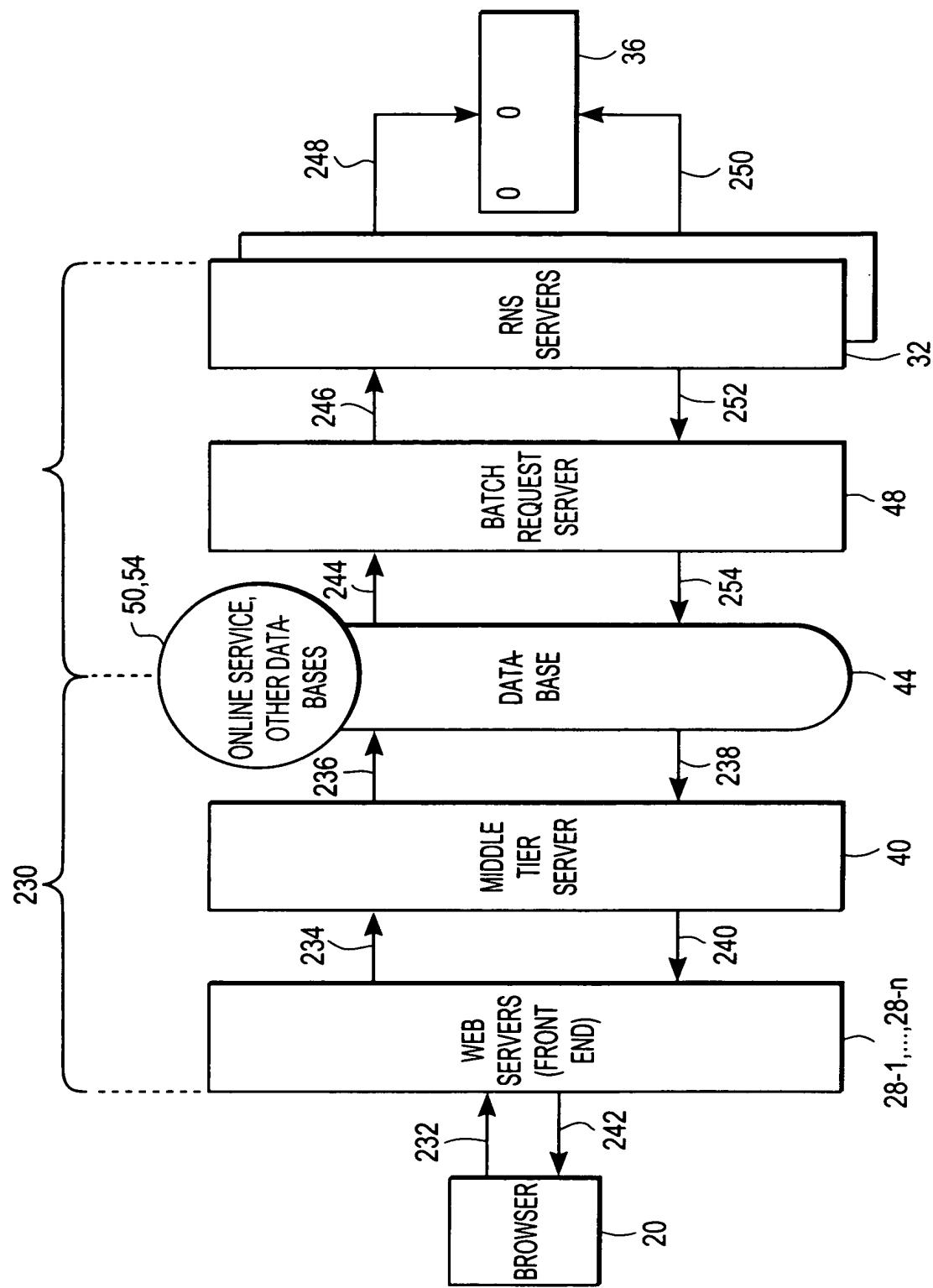


FIG. 13A

SEQUENCE DIAGRAM

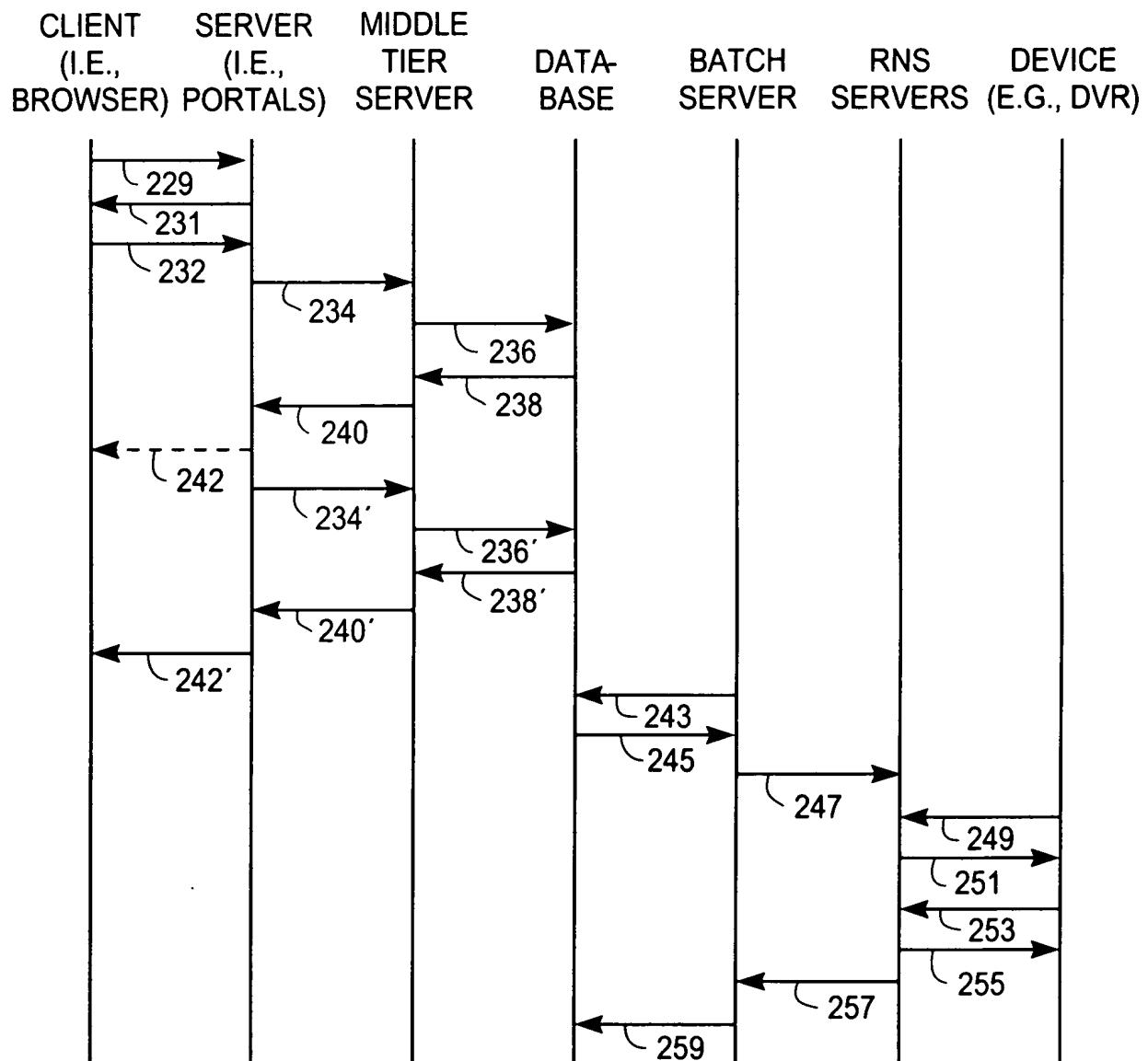


FIG. 13B

API Routine	Function
CreateAccount	Creates an account for a new user based on the information received
Login	Tries to authenticate a user based on the input username and password combination
GetProfile	Returns the profile of the user and his units based on his userid
AddRequest	Adds a request to the unit's list of pending requests based on a set of request parameters, and returns the full status of the unit and of the pending requests, including those for recording specific show(s) and deleting recorded show(s)
DeleteRequest	Delete a request from the user list of pending requests
GetReplayGuide	Returns the Replay Guide of the unit as saved in the appropriate database for the specified unit
GetChannelLineUp	Returns the channel lineup of the unit based on the unit's settings
ChangePassword	Lets the user change his password
GetEPG	Returns the current electronic program guide for the unit based on the settings of the unit
ShowGuide	Returns detailed information about a specified show or search show details for particular shows based on criteria given as parameters

FIG. 14

API Routine	Input Parameters	Output Files (Corresponding XML Elements)
CreateAccount	firstname, lastname, address1, address2, city, state, zipcode, serial number, login, password, creator	ACCOUNT.XML REPLAYERROR.XML
Login	login, password	ACCOUNT.XML REPLAYERROR.XML
GetProfile	userid	PROFILE.XML (USERINFO, UNITINFO-) REPLAYERROR.XML
AddRequest	userid, unitid, reqtype(none, show, theme, update) reqtype=show, showtime(single, repeat, manual single, manual repeat), headendid, tmsid, device, starttimegmt, name, durationinminutes, inputsource, quality, guaranteedrecord, numepisodes, weekdayflags, startminutes, showguamminutes reqtype=theme, searchterm, searchflags, suzukid, durationinminutes, quality, guaranteedrecord reqtype=update, updatetype(deleteshow, preserveshow, deletechannel), channelid, showid	UNITSTATUS.XML (UNITINFO, REQUESTSTATUS-) REPLAYERROR.XML *Note: REQUESTSTATUS Result:=(PENDING, SENT, SUCCESS, GENERAL FAILURE, SCHEDULEFAILURE, ROOMFAILURE)
DeleteRequest	userid, unitid, requestid	DELETERESULT.XML, REPLAYERROR.XML
GetReplayGuide	userid, unitid	GUIDE.XML (REPLAYCHANNEL-), REPLAYERROR.XML *Note: REPLAYCHANNEL Type=(SINGLE, SINGLEMANUAL, REPEAT, REPEATMANUAL, THEME, THEMEEXACT, ZONE)
GetChannelLineUp	userid, unitid	CHANNELLINEUP.XML (CHANNEL-), REPLAYERROR.XML
ChangePassword	userid, currentpassword, newpassword	ACCOUNT.XML, REPLAYERROR.XML
GetEPG	userid, unitid, starttimegmt, durationinminutes, startchannel, channelcount	XML file based on tvguide.dtd & tvprograms.dtd REPLAYERROR.XML
ShowGuide	userid, unitid, query, start, count, levelofdetail *Note: query keywords include actor, advisory, desc, mparating, title, etc.	XML file based on tvguide.dtd & tvprograms.dtd REPLAYERROR.XML

FIG. 15

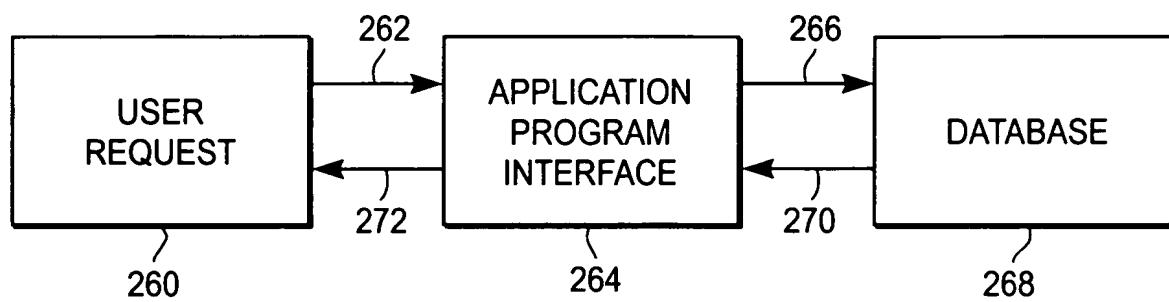


FIG. 16A

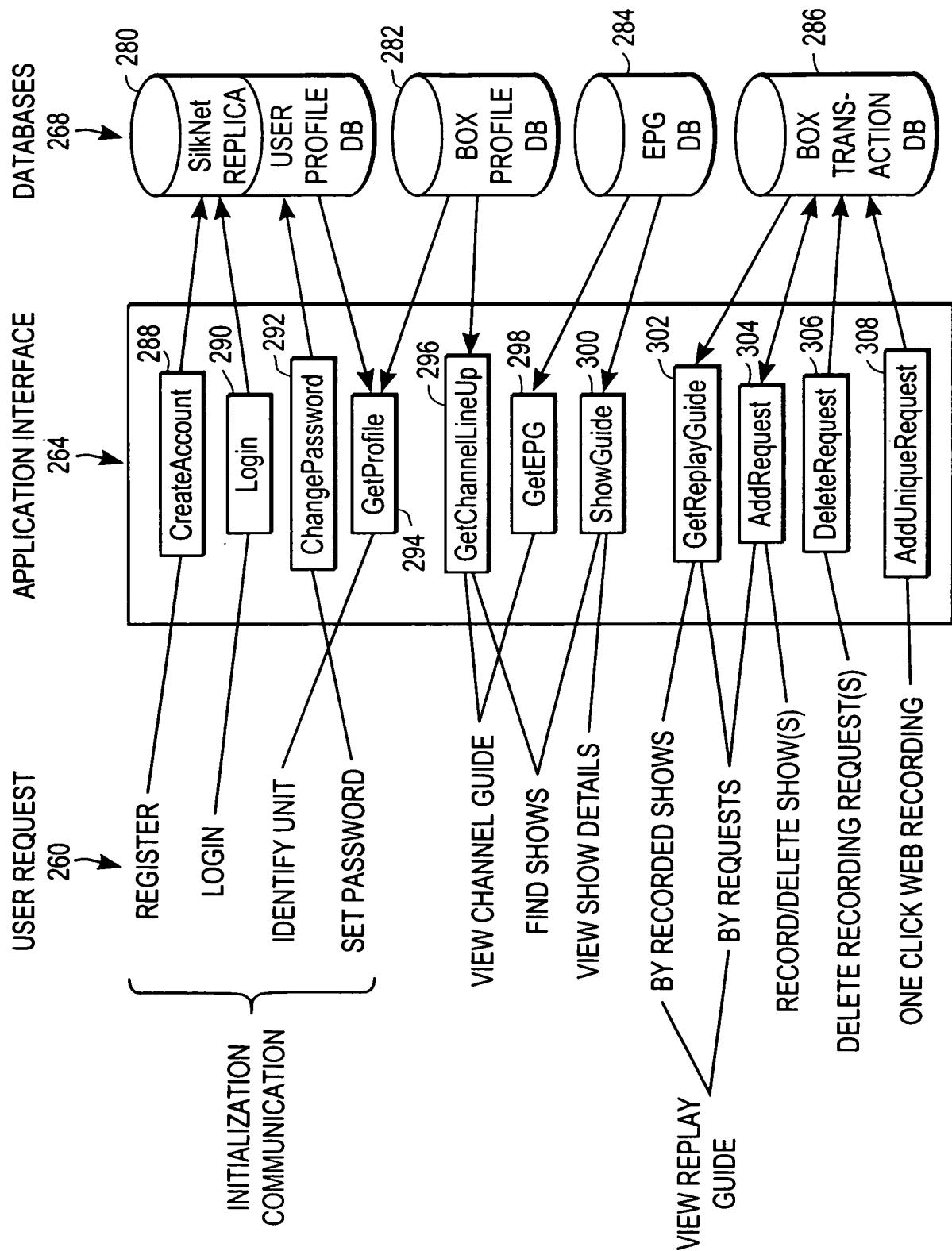


FIG. 16B

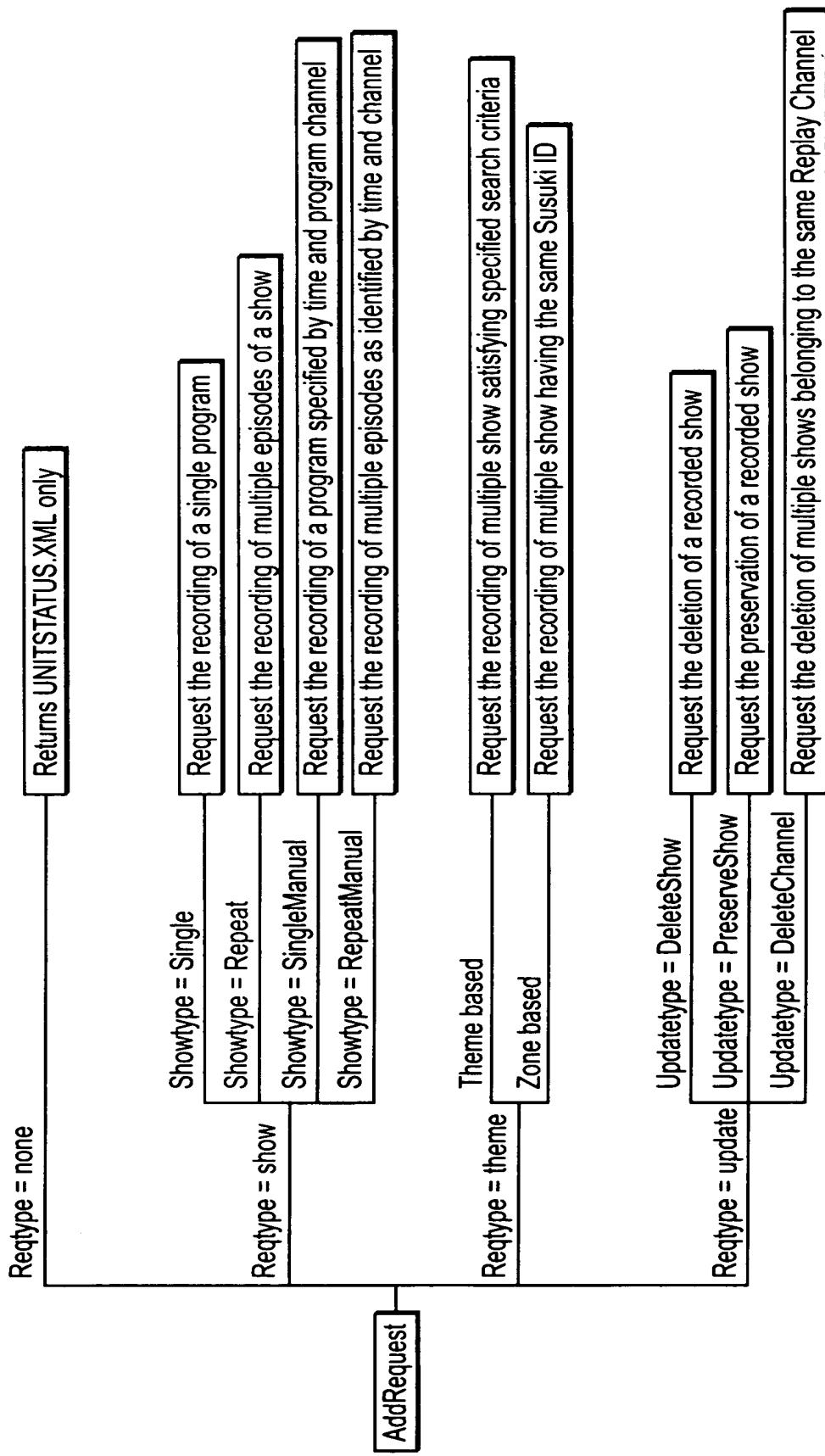
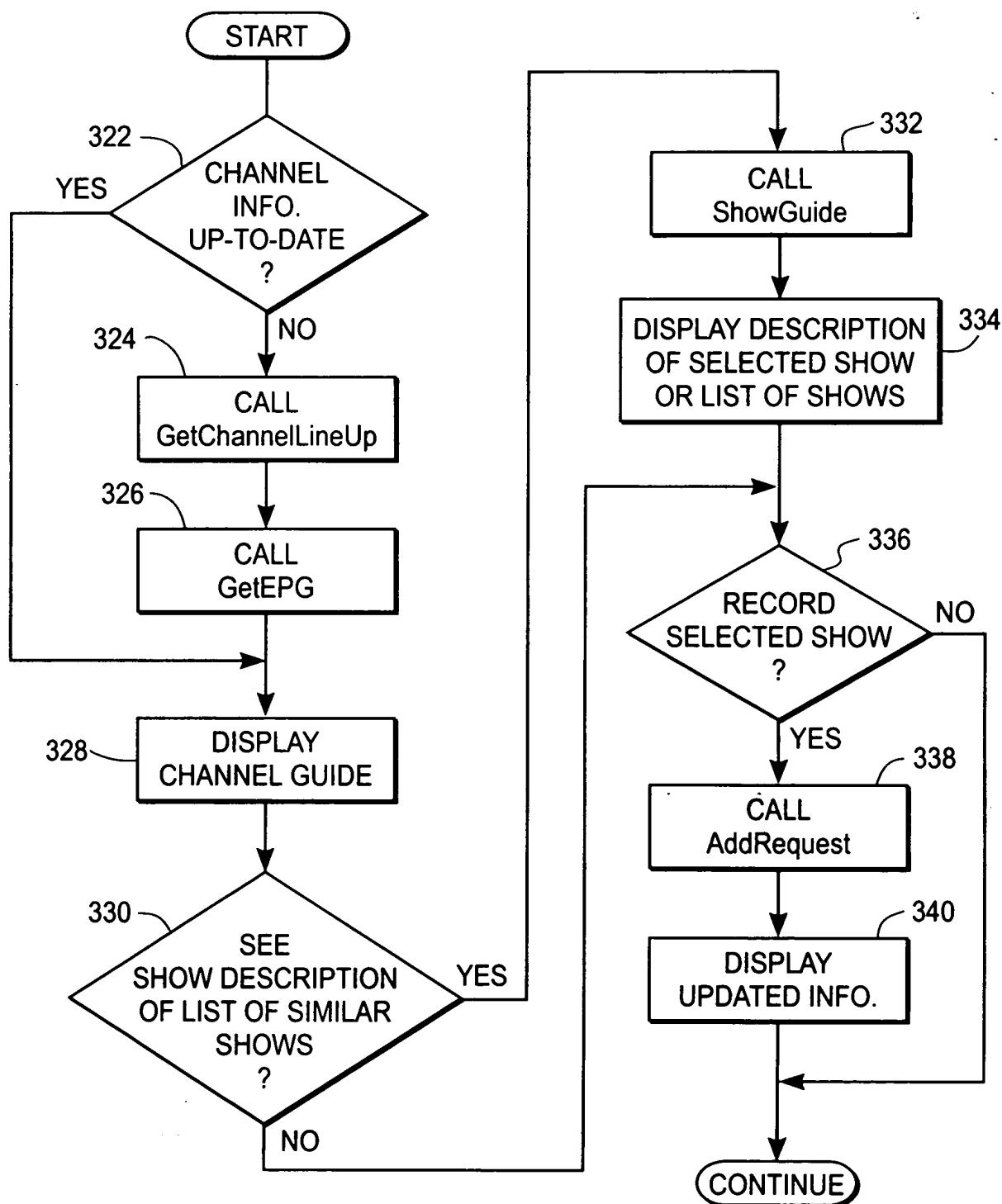


FIG. 17



320

FIG. 18

350

Channel	Details	Status	Request Date
<input type="checkbox"/> <b>A Fistful of Dollars</b>	This single record Replay channel was scheduled to record A Fistful of Dollars from Channel 21 (TBS) on Sun, 02/18 at or around 7:00AM - 9:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		02/18
<input type="checkbox"/> <b>Blown Away</b>	This single record Replay channel was scheduled to record Blown Away from Channel 42 (USAP) on Tue, 01/16 at or around 9:00PM - 11:30PM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		01/16
<input type="checkbox"/> <b>Cantonesse News</b>	This show-based Replay channel will continuously record the 1 most current episode(s) of Cantonesse News occurring every (Sun, Mon, Tue, Wed, Thu, Fri, Sat) on Channel 8 (KTSF) at or around 8:00PM - 9:00PM. Guaranteed at EXTENDED quality.		02/28
<input type="checkbox"/> <b>Captain January</b>	This single record Replay channel was scheduled to record Captain January from Channel 49 (AMC) on Tue, 01/09 at or around 3:30AM - 5:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		01/09

**Replay Guide**

Review and edit your one time and recurring ReplayTV requests

**Delete Selected Channels**

Replay Shows     **Replay Channels**

Channel Guide    **Replay Guide**

Preferences    Help    Logout

Find Shows    **Manual Record**

FIG. 19A

my  **replaytv®**

Replay Guide

Replay Shows      Channel Guide      Replay Guide      Find Shows      Preferences      Help      Logout      Manual Record

Replay Channels

Review and edit recordings saved to your ReplayTV unit



Channel	Show Title/Episode	Date/Time	Station	Duration	Size
A Fistful of Dollars	<input type="checkbox"/> A Fistful of Dollars 02/18 7:00AM	21 TBS	(2h)	6.46%	
Blown Away	<input type="checkbox"/> Blown Away	01/16 9:00PM	42 USAP	(2h 30m)	8.07%
Captain January	<input type="checkbox"/> Captain January	01/19 3:30AM	49 AMC	(1h 30m)	4.84%
Firewalker	<input type="checkbox"/> Firewalker	02/27 8:00PM	21 TBS	(2h)	6.46%
On Deadly Ground	<input type="checkbox"/> On Deadly Ground	01/07 9:00PM	4 KRON	(2h)	6.46%
Platoon	<input type="checkbox"/> Platoon	02/04 8:00PM	37 TNTP	(2h 30m)	8.07%
The Bridge on the River Kwai	<input type="checkbox"/> The Bridge on the River Kwai	12/24 8:00AM	42 USAP	(3h 30m)	11.30%
The Little Princess	<input type="checkbox"/> The Little Princess	12/26 4:15AM	49 AMC	(1h 45m)	5.65%
The Trouble With Harry	<input type="checkbox"/> The Trouble With Harry	12/18 1:05PM	49 AMC	(1h 55m)	6.19%
Welcome to ReplayTV	<input type="checkbox"/> Welcome to ReplayTV	09/08 10:49AM		(15m)	2.42%

FIG. 19B

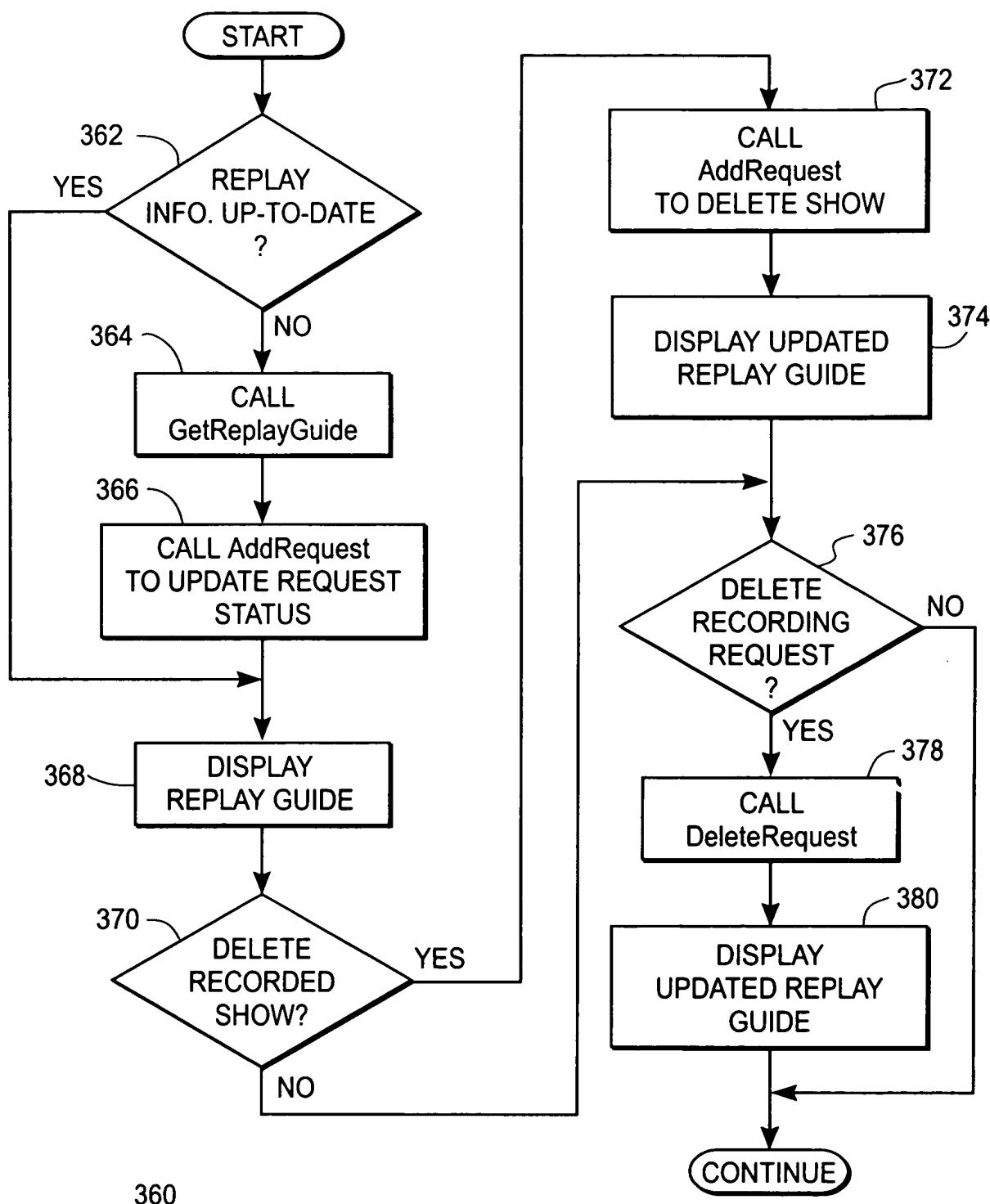


FIG. 20

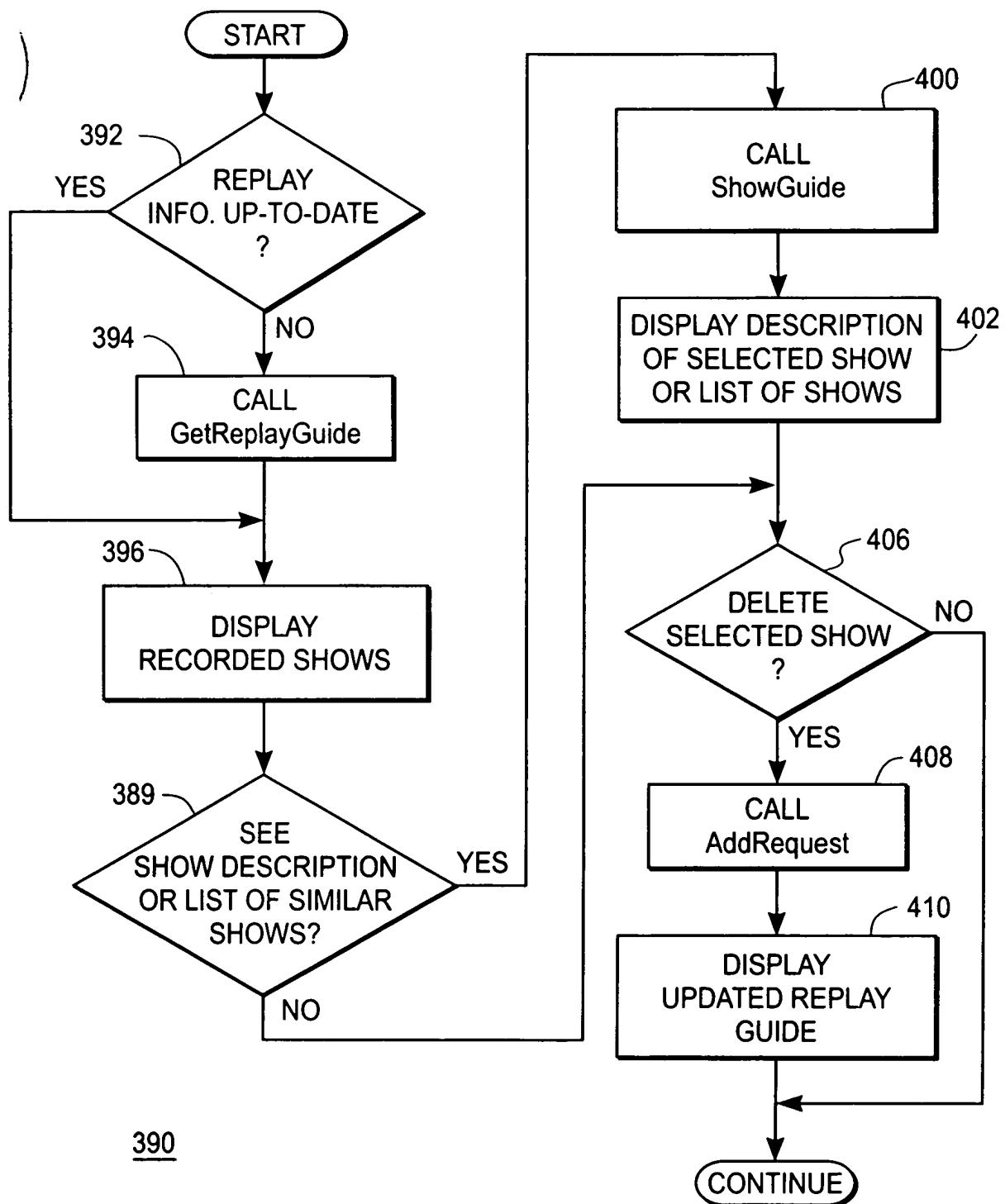


FIG. 21

my r replaytv®

Channel Guide      Replay Guide      Find Shows      Manual Record

Preferences      Help      Logout

## Find Shows

Find:

*Enter the word or phrase that you wish to find.*

In these categories:

Show Titles       Actors  
 Descriptions       Directors

**Find Shows**

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FIG. 22

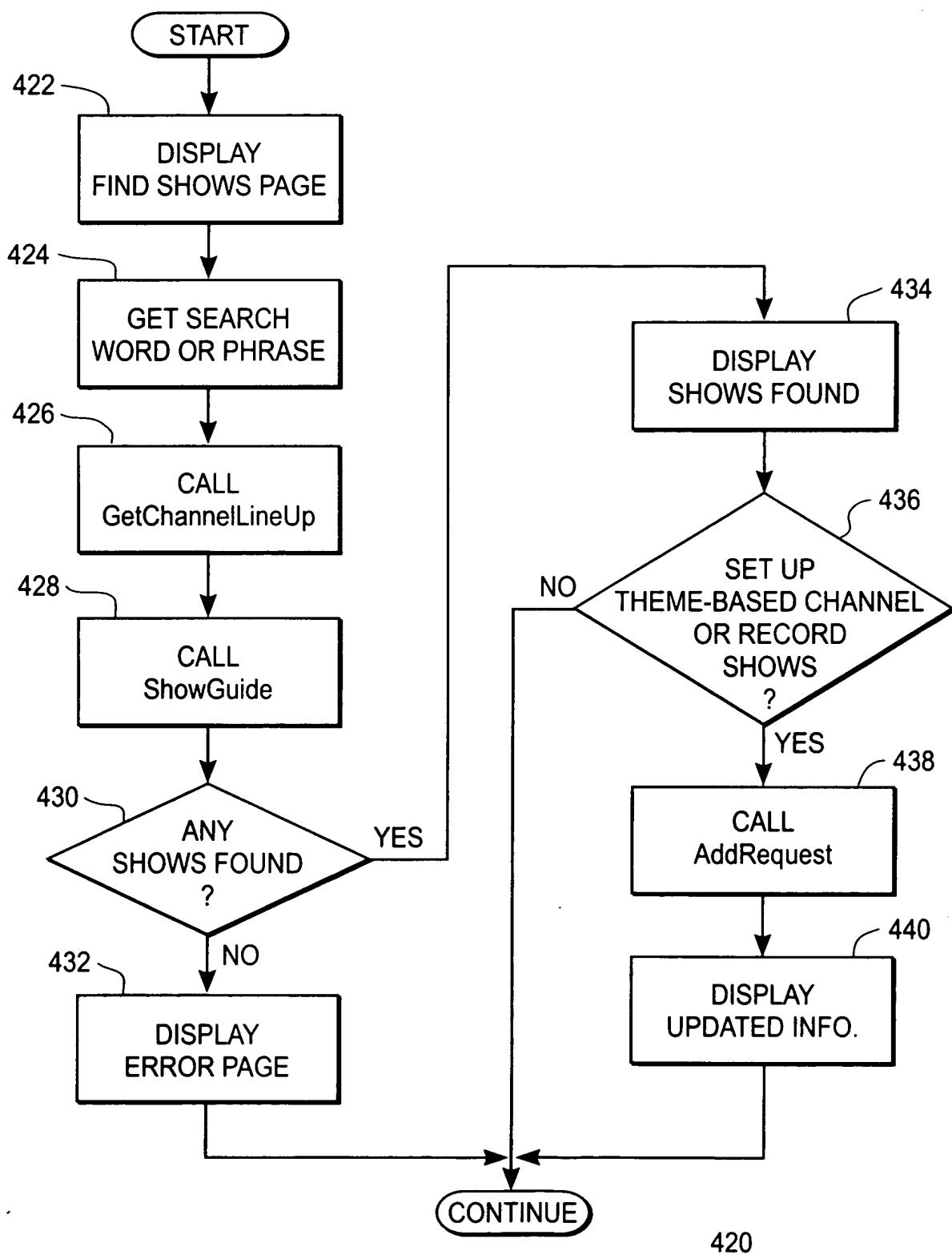


FIG. 23

my  replaytv®

Channel Guide    Replay Guide    Find Shows    Manual Record

Preferences    Help    Logout

**Manual Record**

Single Recording    Repeat Recording

Start Date: Mar  7  2001  Recording duration:

Start Time:  :  AM  End Time:  :  AM

Channel: 0 OXYGEN

Quality: Extended

Guaranteed: Yes

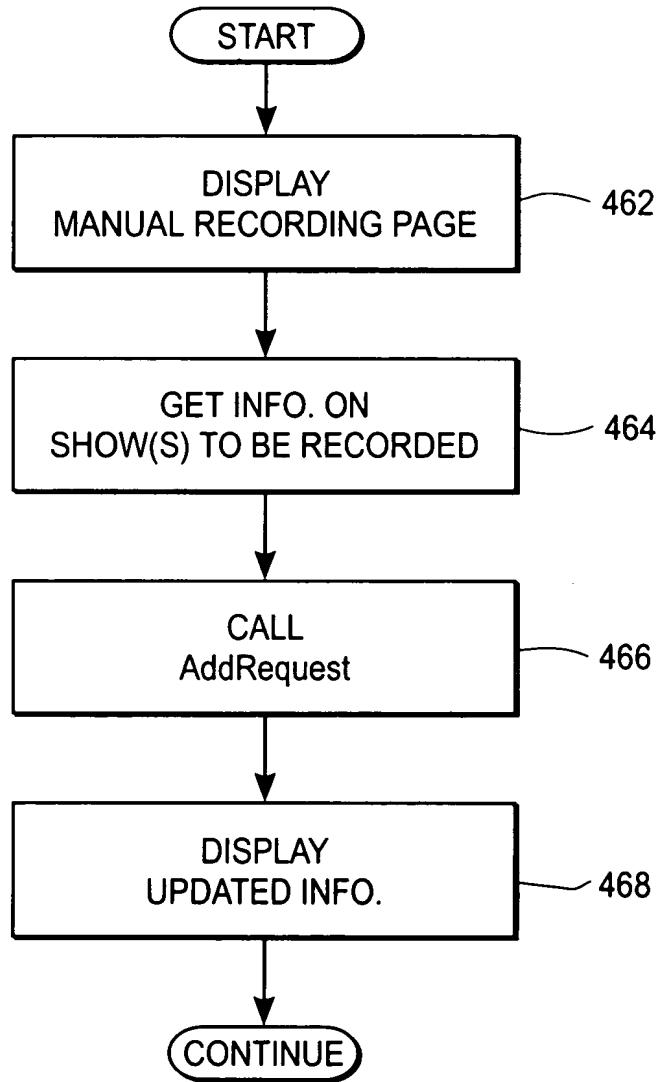
**Submit Requests**

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FIG. 24A    450

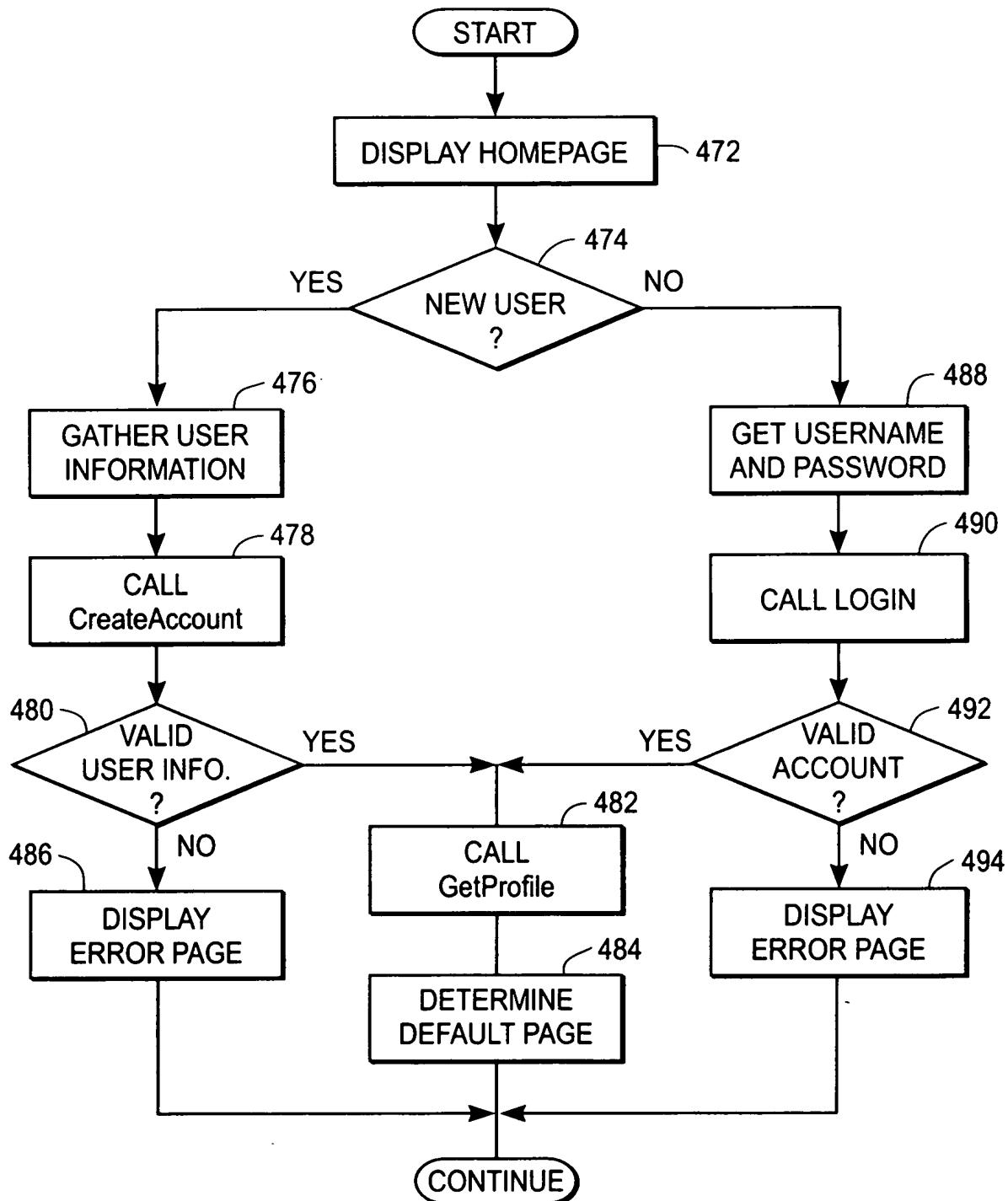
<b>my r</b>  <b>replaytv®</b>	<a href="#">Channel Guide</a>	<a href="#">Find Shows</a>	<a href="#">Manual Record</a>	<a href="#">Replay Guide</a>	<a href="#">Preferences</a>	<a href="#">Logout</a>			
<b>Manual Record</b>									
<b>Single Recording</b> <a href="#">Repeat Recording</a>									
3h 45m available at medium quality as of last connection									
<b>Days</b>	<input type="checkbox"/> Mon	<input checked="" type="checkbox"/> Tue	<input type="checkbox"/> Wed	<input type="checkbox"/> Thu	<input type="checkbox"/> Fri	<input type="checkbox"/> Sat	<input type="checkbox"/> Sun		
<b>Start Time</b>	<input type="text" value="7"/>	<input type="text" value="58"/>	<input checked="" type="checkbox"/> PM	<input type="checkbox"/> AM	<b>End Time</b>	<input type="text" value="11"/>	<input type="text" value="02"/>	<input checked="" type="checkbox"/> PM	<input checked="" type="checkbox"/> AM
<b>Channel</b>	4 KRON 								
<b>Quality</b>	<input checked="" type="checkbox"/> Standard								
<b>Guaranteed</b>	<input checked="" type="checkbox"/> Yes								
<b>Submit Request</b>									

FIG. 24B  
452



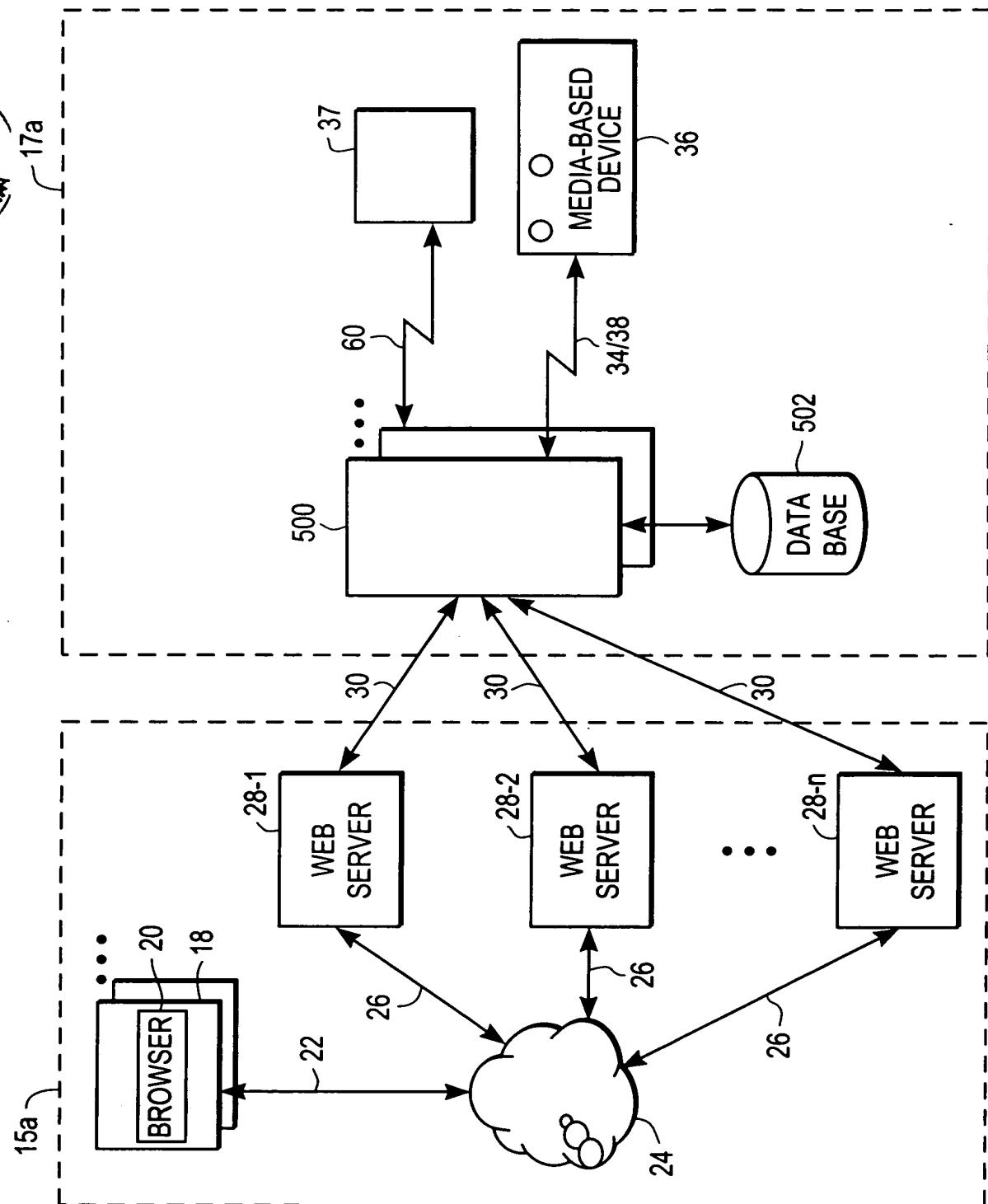
460

FIG. 25



470

FIG. 26



**FIG. 27**  
**19A**

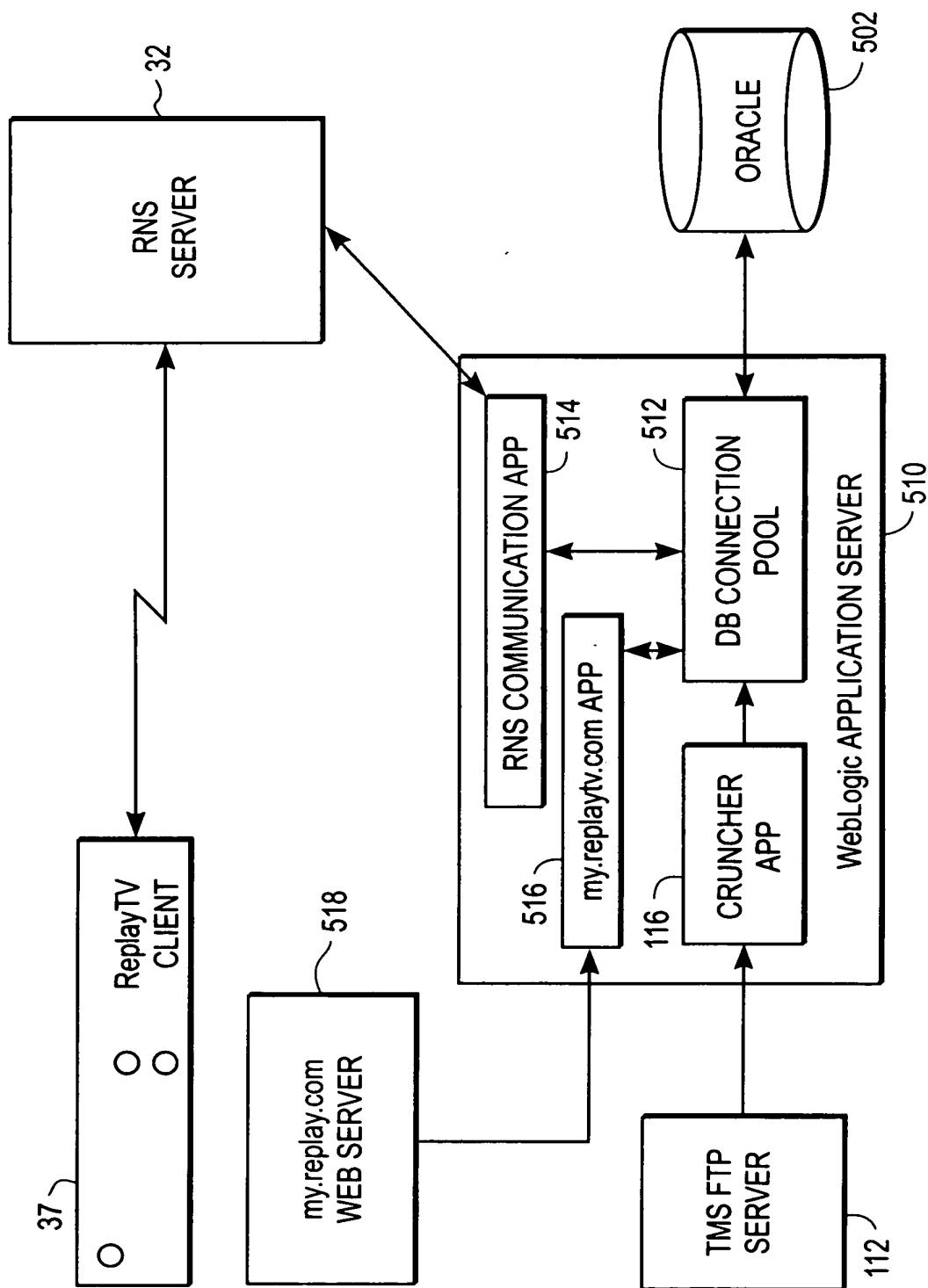


FIG. 28

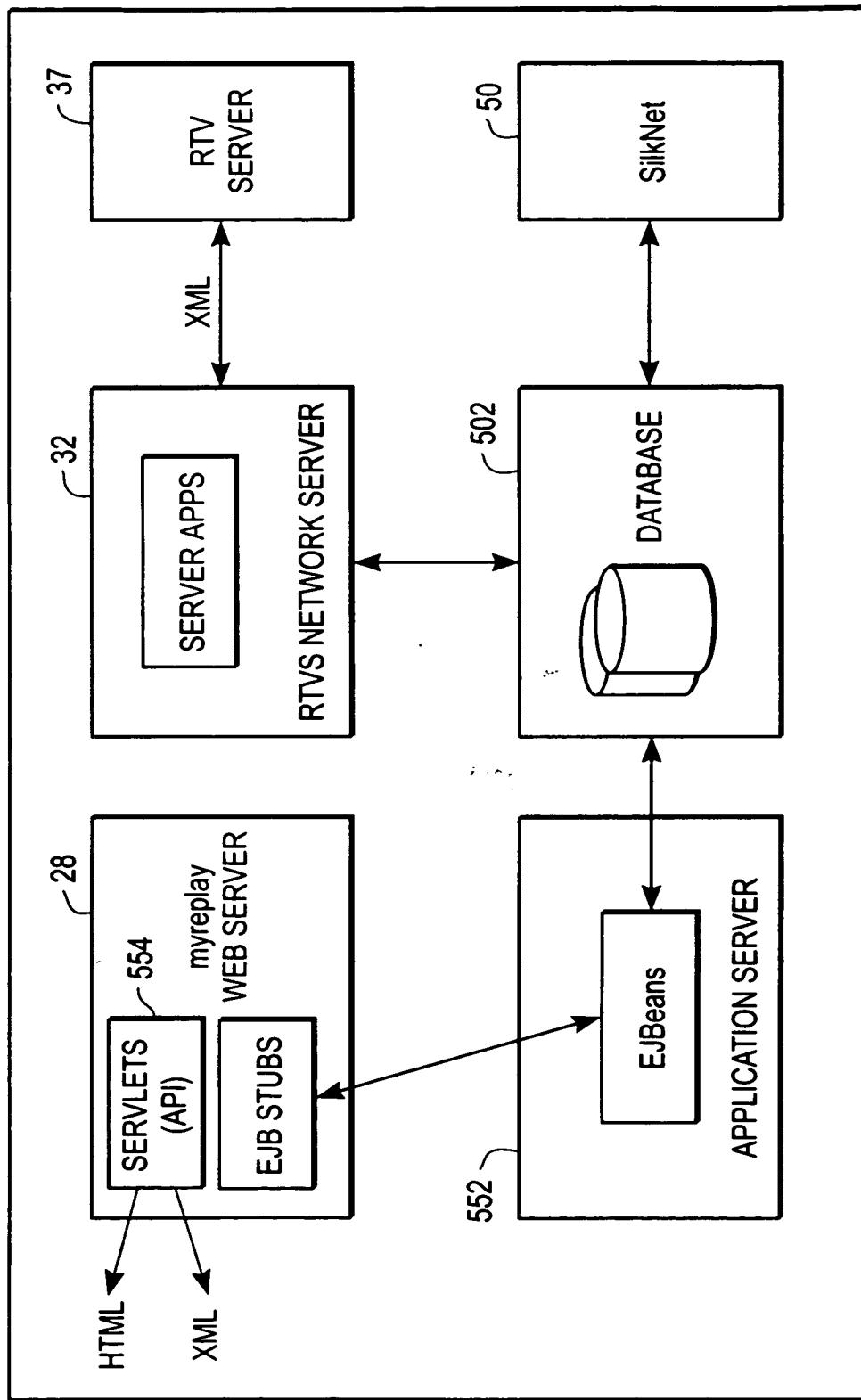


FIG. 29

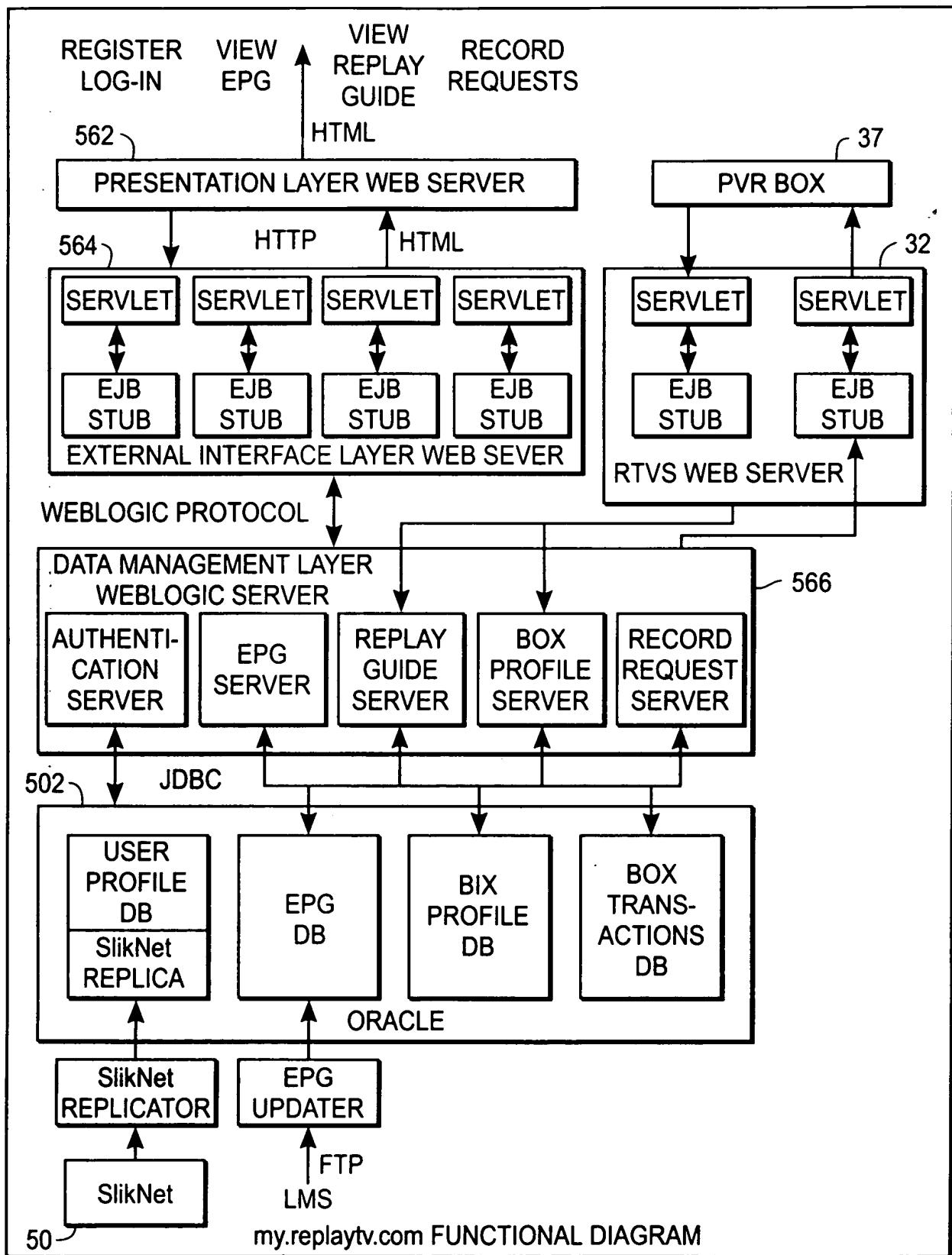


FIG. 30

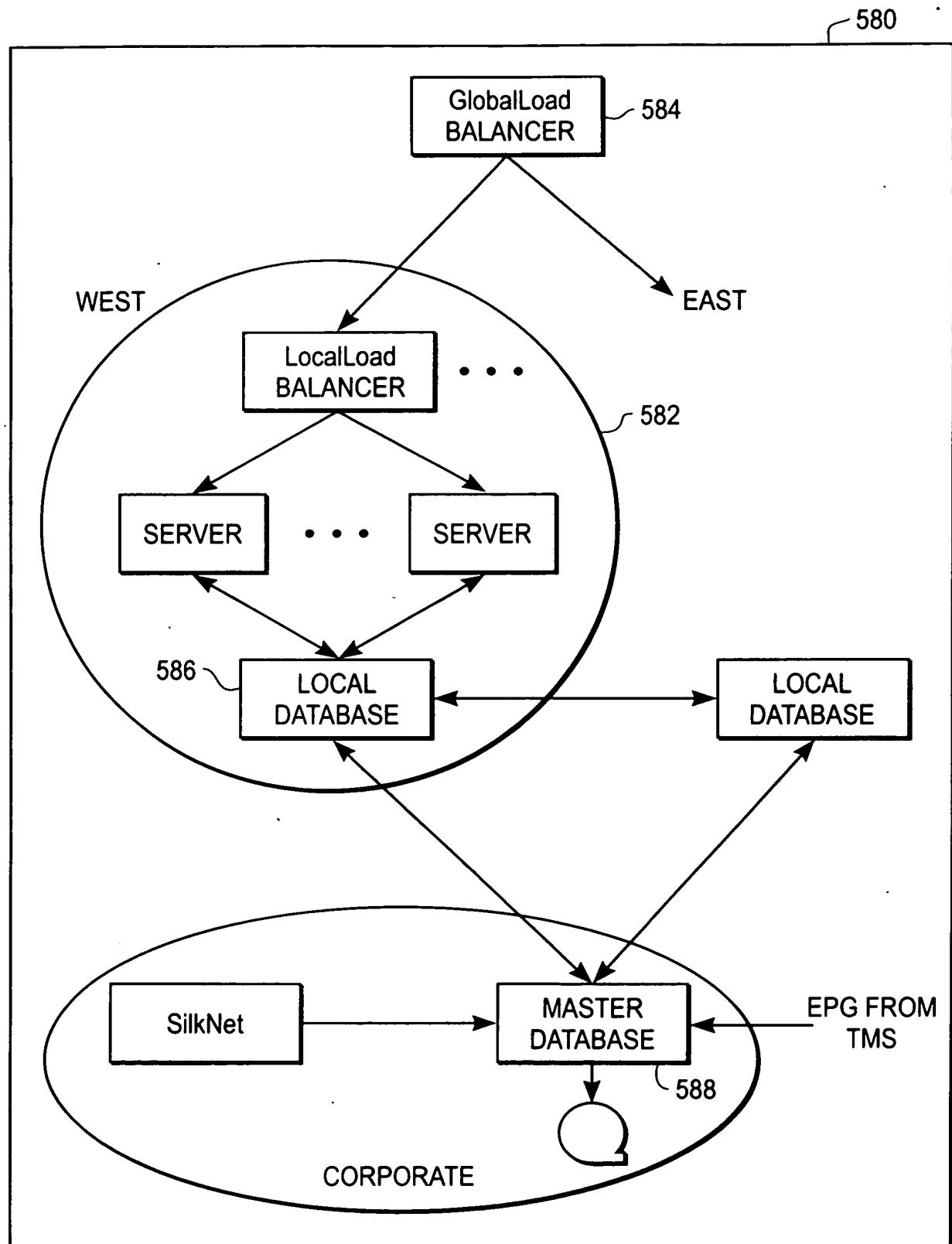


FIG. 31

www.fox.com

604

608

600

**SHOWS**  
 Ally McBeal  
 America's Most Wanted  
 COPS

**Family Guy**  
 Futurama  
 Get Real  
 Greed  
 Guinness World Records  
 King of the Hill  
 MADD  
 Malcolm in the Wild  
 Party of Five  
 That '70s Show  
 The Pits

**HERE IT COMES!**

**Don't miss the return of Get Real.**  
 Wednesday at 1 PM/10C  
 Always on FOX.com

**Family Guy**  
 We know you've been  
 hard up trying to find  
 something to do since  
 Family Guy went on  
 hiatus (Brian fell off the  
 wagon). Wait no longer!  
 Family Guy returns  
 Tuesday at 8:30 PM/7:30  
 C.

**GREED**  
 One of the Seven Deadly  
 Sins was never so  
 profitable. On tonight's  
 '70s Theme Special  
 Edition of Greed: The  
 Series, only the most  
 misery gets the largest  
 prize in the history of  
 game shows.

**TONIGHT ON FOX**

(P) 8 pm/7e  
 That '70s  
 Show  
 (P) 8:30pm/7:30  
 e  
 Greed: The  
 Series  
 (P) 9pm/8e  
 Ally McBeal  
 Schedule

**GREED IS GOOD**

CLICK

CONFIRMATION MESSAGE

**FOX**

Ally McBeal will be recorded on your ReplayTV  
 system tonight at 9PM.

Thanks for using ReplayTV!



602

FIG. 32

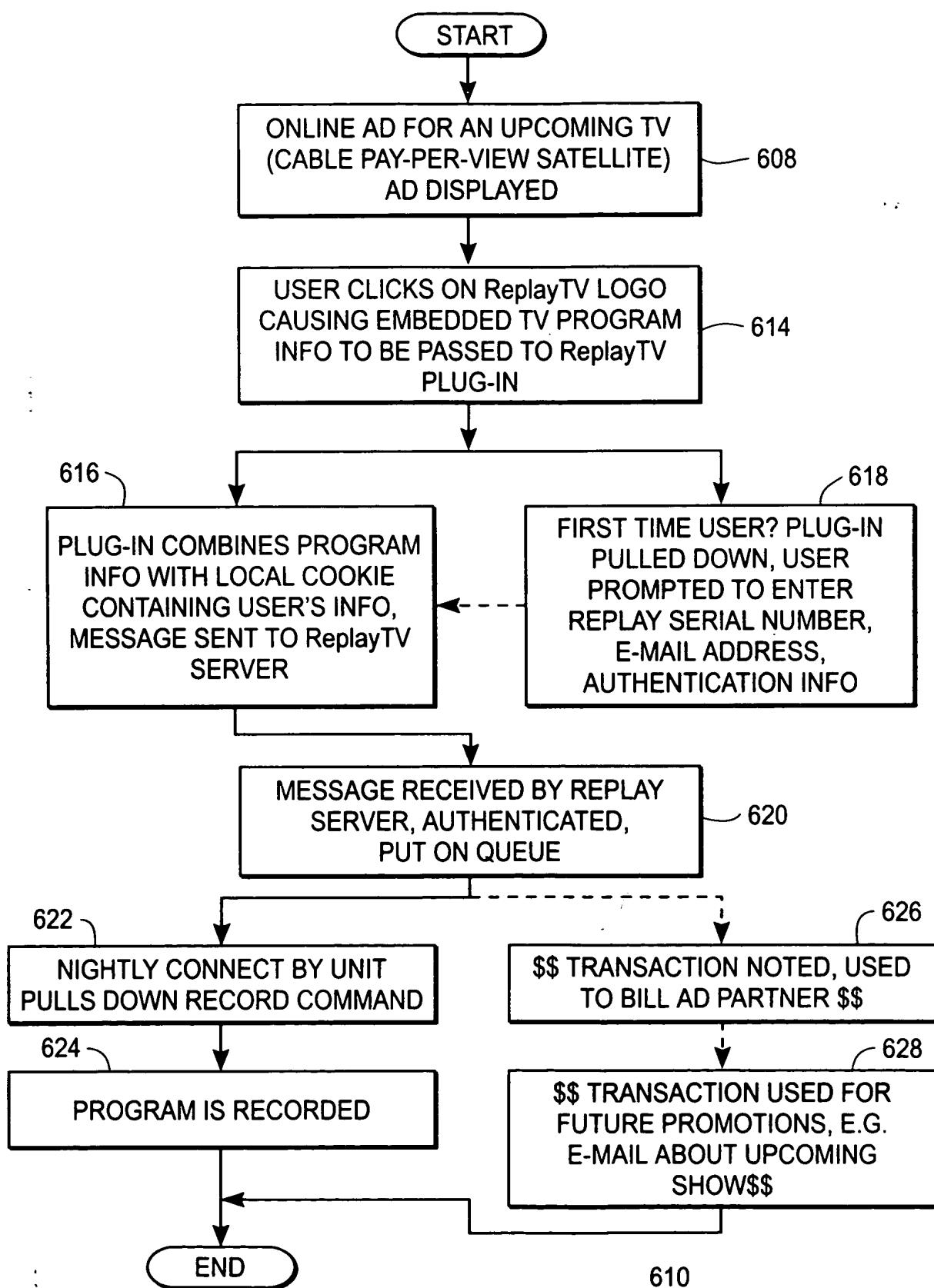


FIG. 33

610